Open Source Used In Application Centric Infrastructure Service Engine (ACI-SE) 1.1

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1.1597 zlib 1.2.7:15.el7
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1.1600 zmq 4.2.5
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1.1605 zsh 5.0.2-31.el7
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1.1606 zsh 5.0.2:7.el7
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1.1607 zsh 5.0.2:14.el7
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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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   table, the facility still operates, and performs whatever part of
   its purpose remains meaningful.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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1.7 adwaita-icon-theme 3.14.1 :1.el7
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1.8 adwaita-icon-theme 3.28.0-1
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### 1.12 alsa-lib 1.1.6 :2.el7

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d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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1.17 ansible 1.9.4
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1.18 ansible/gplv3 1.9.4
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This package was debianized by Henry Graham (hzgraham) <Henry.Graham@mail.wvu.edu> on
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Project Management Committee

Active Members

Bruce Atherton (bruce at callenish.com - http://www.callenish.com/~bruce)  
Currently a Systems Architect with Avue Technologies, Bruce has been working with Java since version 1.0a2. He also claims to be one of the first people to mark up a FAQ with HTML, for a web browser of the distant past called Cello.

Stephane Bailliez

Matt Benson

Stefan Bodewig (stefan.bodewig at freenet.de - http://stefan.samaflost.de/)

Dominique Devienne (ddevienne at apache.org)

Dominique has been involved non-stop with the Ant user community since the 1.4 days, trying without success to answer posts as well or as often as Diane Holt after she left the user list. He is opinionated, always striving for the best possible design. While at Landmark Graphics, he designed and implemented large Ant/CppTasks builds for mixed Java/C++ projects.

Erik Hatcher (ehatcher at apache.org)

Erik is the co-author of Java Development with Ant and speaks on Ant and other topics at No Fluff, Just Stuff symposiums as well as other venues. Erik is the President of eHatcher Solutions, Inc.

Martijn (J.M.) Kruithof (ant at kruithof xs4all nl)
Martijn Kruithof is a system engineer working with and on Java products in a telecommunication network setting.

Antoine Levy-Lambert (antoine at apache.org)

Antoine is working as a software engineer for Ariel Partners. He is specialized in builds and automation of deployment processes.

Steve Loughran

Conor MacNeill (conor at cortexebusiness.com.au)

Conor is a senior developer at Cortex eBusiness, where he develops J2EE based systems. In his spare time he helps with the development of the Ant build tool. He is also serving as the Chairman of this PMC.

Jan Matrne (jhm at apache.org)

Jan is consultant for OOA/D in the computer centre of the government of Northrhine Westfalia / Germany.

Peter Reilly

Sam Ruby (rubys at us.ibm.com)

Sam takes a perverse pleasure in integrating disparate things. He is a member of the PHP group, Apache XML PMC, Apache sponsor for the xml-soap subproject and convener of ECMA TC39 TG3.

Magesh Umasankar (umagesh at apache.org)

Magesh, President of Metamach Solutions, an Atlanta-based technology-management consultancy, has recently launched
WinedIn.com for wine-lovers to pair food and wine.

Christoph Wilhelms (christoph.wilhelms at t-online.de)

Christoph works as software engineer at the world's biggest travel company TUI. His passion are all UI related things so at the Ant-Project he takes care of Antidote - the Ant GUI.

Kevin Jackson (foamdino at gmail.com)

James Duncan Davidson (duncan at x180.net - http://x180.net/)

By day, Duncan works in the Open Source Program Office at Sun Microsystems where he helps various Open Source efforts within Sun "do the right thing". Previously at Sun he was responsible for the Servlet API Specifications 2.1 and 2.2 as well as the Java API for XML Parsing 1.0 and was the original author of Tomcat and Ant. He was one of the rabble-rousers within Sun that helped make the Jakarta Project a reality and served as the first Chairman of the Jakarta PMC.

Diane Holt

Donald Leslie

Costin Monolache

Jon Skeet

Committers

Active Committers
Steve Cohen

Jose Alberto Fernandez

Jesse Glick (jesse dot glick at sun dot com)

Jesse has been using Java since 1998 and joined Sun Microsystems as part of the company that produced the NetBeans IDE. After discovering Ant in the 1.2 days, he wrote most of NetBeans' Ant integration. Recently he has worked on the NetBeans 4.0 project system, based heavily on Ant as a build tool.

Jon Schneider

Alexey Solofenko (trelony at gmail.com)

Emeritus Committers

Preston Bannister

Nick Davis

Darrell DeBoer

Peter Donald (peter at apache.org)

Peter is an avid java developer who is active in the Avalon and Ant projects.

In his spare time he develops a distributed virtual environment (ie military simulator or 3D game) using java technologies.

Danno Ferrin (shemnon at yahoo.com)

Danno has been programming in Java since Summer 96. Danno wrote a JSP
engine on his own and released it the very same day Jakarta was announced at JavaOne. Since then, he decided to join the Jakarta project in a spirit of co-operation over competition.

</p>

<p>
<b>Simeon H.K. Fitch</b> (simeon.fitch at mseedsoft.com)
<br/>
Simeon is owner of Mustard Seed Software, which specializes in developing distributed applications and user interfaces for the science, engineering, and research oriented clients. He is the lead architect and developer for Antidote, the GUI for Ant.
</p>

<p>
<b>Thomas Haas</b> (tha at whitestein.com)
<br/>
Tom is interested in distributed systems, Java middleware and worked on an implementation of the JMS specification. At Whitestein Technologies he is working on bringing software agent technology and J2EE together.
</p>

<p>
<b>Jason Hunter</b> (jh at servlets.com)
<br/>
</p>

<p>
<b>Justyna Horwat</b> (horwat at apache.org)
</p>

<p>
<b>Aron Jamwal</b>
</p>

<p>
<b>Arnout J. Kuiper</b> (ajkuiper at planet.nl)
<br/>
Arnout J. Kuiper is a Java Architect with the Sun Java Center at Sun Microsystems. His main focus is web-related technologies on the Java platform (J2EE, XML, ...).
</p>

<p>
<b>Stefano Mazzocchi</b> (stefano at apache.org)
<br/>
Stefano is addicted to software design, Java programming and open development. In the last 4 years, he has contributed way too much
time to Apache, especially on JServ, JMeter, Avalon, JAMES, Ant, Cocoon and helping to bring more projects into Apache-land, such as FOP, Batik, POI and Xindice. The problem is that he's too picky to be satisfied :-)

</p>


<p>
<b>Glenn McAllister</b> (glenn at somanetworks.com)
<br />
Glenn McAllister is a software developer at SOMA Networks, was formerly the same at IBM (plus tech writer plus build guy), and does some writing on the side for the VADD Technical Journal.
</p>

<p>
<b>Craig McClanahan</b> (Craig.McClanahan at eng.sun.com)
<br />
Craig was involved in the Apache JServ project, focused on implementing a next generation architecture and feature set for the core servlet engine. He has recently joined Sun as technical lead for the servlet and JSP reference implementation.
</p>

<p>
<b>Adam Murdoch</b>

</p>

<p>
<b>Harish Prabhandham</b> (harishp at onebox.com)
<br />
Harish is an engineer with the J2EE team at Sun, primarily responsible for implementing security in the J2EE Reference Implementation (RI). He integrated various technologies including servlet/JSP implementations from Tomcat into the J2EE RI. These days, he hacks PHP code during the day.
</p>

<p>
<b>Nico Seessle</b>
<br />
</p>

<p>
<b>Gal Shachor</b> (shachor at il.ibm.com)
<br />
Gal Shachor is a research staff member at IBM. He wrote his first Servlet container (ServletExpress) at the beginning of 1997. Later on ServletExpress (and Gal) merged into WebSphere, and Gal participated in the development of WebSphere 1, 2 and 3.
</p>

<p>
<b>Jon S. Stevens</b> (jon at collab.net)
<br />
Jon is a Co-Founder of http://www.clearink.com/Clear Ink
Corp\</a\> and recently left to work on \<a href="http://scarab.tigris.org/">Scarab</a\> a next generation Open Source Java Servlet based Issue/Bug tracking system for \<a href="http://www.collab.net/">CollabNet</a\>. He is an active developer of the \<a href="http://java.apache.org/jserv/">Apache JServ Servlet Engine</a\> for the Apache Web Server and Co-Author of the \<a href="http://java.apache.org/ecs/">Element Construction Set</a\> as well as the web application framework, \<a href="http://java.apache.org/turbine/">Turbine</a\>. \</p\>

\<b>Jesse Stockall</b>\</p\>

\<b>James Todd</b> (jw todd at pacbell.net)\</p\>

James has developed real time customer oriented apps for roughly 10 years the last 5 of which have predominately been fully integrated, front and back, extraNet implementations which have been based on Apache, Java and Tcl. \</p\>

\<b>Anil Vijendran</b> (akv at eng.sun.com)\</p\>

Anil Vijendran is the principal developer of the JSP engine in Tomcat. He's done some pretty scary things in his past life -- implementing the CORBA IDL to C++ 2.0 mapping, skydiving, IDL to Java compilers, Object Databases (SIGSEV, you da man!) for C++, Java ORB and EJB runtime environments -- in that order. \</p\>

\<h3 class="section">\</h3\>

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Ant's logo is the result of a logo contest, it has been designed by\</p\>

\<b>Nick King</b>\</p\>

\</div\>

\</div\>

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\<script type="text/javascript" language="JavaScript">\</script>\</p\>
Represents a permission.
<!-- ========== METHOD SUMMARY =========== -->

<table>
<thead>
<tr>
<th>Method Summary</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
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<td>Get the actions.</td>
</tr>
<tr>
<td>getClassName()</td>
<td>Get the class of the permission.</td>
</tr>
<tr>
<td>getName()</td>
<td>Get the name of the permission.</td>
</tr>
</tbody>
</table>

`setActions(java.lang.String)`

```java
void setActions(java.lang.String actions)
```

Get the actions.

Get the class of the permission.

Get the name of the permission.

Set the actions.
Set the actions.

```java
void setClass(String aClass)
```

Set the class, mandatory.

```java
void setName(String aName)
```

Set the name of the permission.

```java
String toString()
```

Get a string description of the permissions.

Methods inherited from class java.lang.Object

- clone, equals, finalize, getClass, hashCode, notify, notifyAll, wait, wait, wait

---

Methods inherited from class java.lang.Object

- clone, equals, finalize, getClass, hashCode, notify, notifyAll, wait, wait, wait
Permissions.Permission()

```java
public Permissions.Permission()
```

### Method Detail

#### setClass(java.lang.String)

```java
public void setClass(java.lang.String aClass)
```

Set the class, mandatory.

- **Parameters:**
  - `aClass` - The class name of the permission.

#### getClassName()

```java
public java.lang.String getClassName()
```

Get the class of the permission.

- **Returns:**
  - The class name of the permission.
**setName**

```java
public void setName(java.lang.String aName)
```

Set the name of the permission.

**Parameters:**
- `aName` - The name of the permission.

**getName**

```java
public java.lang.String getName()
```

Get the name of the permission.

**Returns:**
- The name of the permission.

**setActions**

```java
public void setActions(java.lang.String actions)
```

Set the actions.

**Parameters:**
- `actions` - The actions of the permission.

**getActions**

```java
public java.lang.String getActions()
```

Get the actions of the permission.
Get the actions.

Returns: The actions of the permission.

Get a string description of the permissions.

Overrides: toString() in class java.lang.Object

Returns: string description of the permissions.
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From strings/apr_fnmatch.c, include/apr_fnmatch.h, misc/unix/getopt.c, file_io/unix/mktemp.c, strings/apr_strings.c:

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From strings/apr_strnatcmp.c, include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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From strings/apr_strnatcmp.c, include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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From strings/apr_strnatcmp.c, include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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1.26 apr-util 1.5.2

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1.29 apr-util-devel 1.5.2-6

1.30 apr-util-ldap 1.5.2

1.31 asn1crypto 0.24.0

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1.32 at-spi2-atk 2.26.2 :1

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tests/dummyatk/my-atk-table-cell.c
tests/dummyatk/my-atk-table-cell.h
tests/dummyatk/my-atk-table.c
tests/dummyatk/my-atk-table.h
tests/dummyatk/my-atk-value.c
tests/dummyatk/my-atk-value.h
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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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1.36 atk 2.14.0

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Version 3.0, 18 August 2009

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the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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This option is useful when you wish to copy part of the code of
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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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1.56 avahi-libs 0.6.31 :15.el7

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   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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From specedt@armory.com Wed May 10 10:21:11 1995
Flags: 10
Return-Path: specedt@armory.com
Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP (8.6.10+cwru/CWRU-2.1-ins)
   id KAA22876; Wed, 10 May 1995 10:21:10 -0400 (from specedt@armory.com for <chet@odin.INS.CWRU.Edu>)
Received: from deepthought.armory.com (mmdf@deepthought.armory.com [192.122.209.42]) by po.cwru.edu with SMTP (8.6.10+cwru/CWRU-2.3)
   id BAA16354; Wed, 10 May 1995 01:33:22 -0400 (from specedt@armory.com for <chet@po.cwru.edu>)
From: John DuBois <specedt@armory.com>
Date: Tue, 9 May 1995 22:33:12 -0700
In-Reply-To: Chet Ramey <chet@odin.ins.cwru.edu>
   "ksh scripts" (May 9, 1:36pm)
X-Www: http://www.armory.com/~specedt/
X-Mailer: Mail User's Shell (7.2.5 10/14/92)
To: chet@po.cwru.edu
Subject: Re: ksh scripts
Message-ID: <9505092233.aa13001@deepthought.armory.com>

Sure. The canonical versions are available on ftp.armory.com; you might want to pick up the latest versions before modifying them.

John

On May 9, 1:36pm, Chet Ramey wrote:

} Subject: ksh scripts
} From odin.ins.cwru.edu!chet Tue May  9 10:39:51 1995
} Received: from odin.INS.CWRU.Edu by deepthought.armory.com id aa22336; 
}         9 May 95 10:39 PDT
} Received: (chet@localhost) by odin.INS.CWRU.Edu (8.6.10+cwru/CWRU-2.1-ins)
} id NAA20487; Tue, 9 May 1995 13:39:24 -0400 (from chet)
} Date: Tue, 9 May 1995 13:36:54 -0400
} From: Chet Ramey <chet@odin.ins.cwru.edu>
Hi. I'm the maintainer of bash (the GNU `Bourne Again shell') for the FSF.

I picked up a tar file of ksh scripts you wrote from an anon FTP site a while back. I'd like your permission to include modified versions of some of them in the next major bash distribution (with proper credit given, of course). Is it OK if I do that?

Chet Ramey

--
``The lyf so short, the craft so long to lerne.`` - Chaucer

Chet Ramey, Case Western Reserve University
Internet: chet@po.CWRU.Edu

-- End of excerpt from Chet Ramey

From mikel@ora.com Tue Aug 1 12:13:20 1995
Flags: 10
Return-Path: mikel@ora.com
Received: from ruby.ora.com (ruby.ora.com [198.112.208.25]) by odin.INS.CWRU.Edu with ESMTP (8.6.12+cwru/CWRU-2.1-ins)
id MAA01565; Tue, 1 Aug 1995 12:13:18 -0400 (from mikel@ora.com for <chet@odin.INS.CWRU.Edu>)
Received: (from fax@localhost) by ruby.ora.com (8.6.12/8.6.11) with UUCP id MAA23251; Tue, 1 Aug 1995 12:07:51 -0400
Received: by los.ora.com (4.1/Spike-2.1)
id AA00672; Tue, 1 Aug 95 08:57:32 EDT
Date: Tue, 1 Aug 95 08:57:32 EDT
From: mikel@ora.com (Michael Loukides)
Message-Id: <9508011257.AA00672@los.ora.com>
Subject: Re: Ksh debugger from Rosenblatt's book [for bash]
To: Chet Ramey <chet@odin.INS.CWRU.Edu>
Cc: cmarie@ora.com, cam@iinet.com.au, brosenblatt@tm.com
In-Reply-To: Chet Ramey <chet@odin.INS.CWRU.Edu>, Mon, 31 Jul 1995 16:22:48 -0400

I've modified a (modified) version of Bill Rosenblatt's ksh debugger to work with bash-2.0. Does ORA have any problem with me distributing it with bash-2.0?

That's great!
Go ahead and circulate it; in fact, we should probably grab it and stick it in our ftp archive, and put a reference to it in the book. (Too late to actually discuss the thing, at least for this edition).

-------

From friedman@cli.com Thu May 25 12:19:06 1995
Flags: 10
Return-Path: friedman@cli.com
Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP (8.6.10+cwru/CWRU-2.1-ins)
  id MAA08685; Thu, 25 May 1995 12:19:05 -0400 (from friedman@cli.com for <chet@odin.INS.CWRU.Edu>)
Received: from cli.com (cli.com [192.31.85.1]) by po.cwru.edu with SMTP (8.6.10+cwru/CWRU-2.3)
  id MAA11299; Thu, 25 May 1995 12:19:00 -0400 (from friedman@cli.com for <chet@po.cwru.edu>)
Received: from tepui.cli.com by cli.com (4.1/SMI-4.1)
  id AA27213; Thu, 25 May 95 11:18:25 CDT
Received: by tepui.cli.com (4.1) id AA16031; Thu, 25 May 95 11:18:23 CDT
Message-Id: <9505251618.AA16031@tepui.cli.com>
From: friedman@gnu.ai.mit.edu (Noah Friedman)
To: chet@po.cwru.edu
Subject: Bash scripts
Reply-To: friedman@gnu.ai.mit.edu
In-Reply-To: <chet@odin.ins.cwru.edu> Thu, 25 May 1995 11:19:59 -0400
References: <9505251519.AA06424.SM@odin.INS.CWRU.Edu>
Date: Thu, 25 May 95 11:18:21 CST

>Hi. I snagged some of your bash functions from your home directory on
>the FSF machines (naughty, I know), and I was wondering if you'd let
>me distribute them with bash-2.0. Thanks.

Sure. I think there's a later copy in
~ftp/friedman/shell-inits/init-4.89.tar.gz. There are also some elisp and
es frobs in that file.

It should serve as a pretty good example of how to get carried away. :-)

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#!/bin/sh -
#
# bashbug - create a bug report and mail it to the bug address
#
# The bug address depends on the release status of the shell. Versions
# with status `devel', `alpha', `beta', or `rc' mail bug reports to
# chet@cwru.edu and, optionally, to bash-testers@cwru.edu.
# Other versions send mail to bug-bash@gnu.org.
#
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# configuration section:
# these variables are filled in by the make target in Makefile
#
MACHINE="x86_64"
OS="linux-gnu"
CC="gcc"
CFLAGS="-DPROGRAM='bash' -DCONF_HOSTTYPE='x86_64' -DCONF_OSTYPE='linux-gnu' -DCONF_MACHTYPE='x86_64-redhat-linux-gnu' -DCONF_VENDOR='redhat' -DLOCALEDIR='/usr/share/locale' -DPACKAGE='bash' -DSHELL -DHAVE_CONFIG_H -I -I -I/include -I/lib -O2 -g -pipe -Wall -Wp, -D_FORTIFY_SOURCE=2 -fexceptions -fstack-protector-strong --param=ssp-buffer-size=4 -grecord-gcc-switches -m64 -mtune=generic"
RELEASE="4.2"
PATCHLEVEL="46"
RELSTATUS="release"
MACHTYPE="x86_64-redhat-linux-gnu"

PATH=/bin/usr/bin:/usr/local/bin:$PATH
export PATH

# Check if TMPDIR is set, default to /tmp
: ${TMPDIR:=$tmp}

# Securely create a temporary directory for the temporary files
TEMPDIR=${TMPDIR}/bug.$$
(umask 077 && mkdir $TEMPDIR) || {
  echo "$0: could not create temporary directory" >&2
  exit 1
}

TEMPFILE1=$TEMPDIR/bug1
TEMPFILE2=$TEMPDIR/bug2

USAGE="Usage: $0 [--help] [--version] [bug-report-email-address]"
VERSTR="GNU bashbug, version ${RELEASE}.${PATCHLEVEL}-${RELSTATUS}"

do_help= do_version=

while [ $# -gt 0 ]; do
  case "$1" in
  --help)shift ; do_help=y ;;
  --version)shift ; do_version=y ;;
  *)shift ; break ;;
  *)echo "bashbug: $1: invalid option" >&2
  echo "$USAGE" >& 2
  exit 2 ;;
  esac
done

if [ -n "$do_version" ]; then
  echo "${VERSTR}"
  exit 0
fi

if [ -n "$do_help" ]; then
  echo "${VERSTR}"
  echo "${USAGE}"
  echo
cat << HERE_EOF


Bashbug is used to send mail to the Bash maintainers for when Bash doesn't behave like you'd like, or expect.

Bashbug will start up your editor (as defined by the shell's EDITOR environment variable) with a preformatted bug report template for you to fill in. The report will be mailed to the bug-bash mailing list by default. See the manual for details.

If you invoke bashbug by accident, just quit your editor without saving any changes to the template, and no bug report will be sent.

```bash
HERE_EOF
exit 0
fi

# Figure out how to echo a string without a trailing newline
N=`echo 'hi there\c'`
case "$N" in
  *c)
    n=-n c= ;;
  *)
    n= c='\c' ;;
  esac

BASHTESTERS="bash-testers@cwru.edu"
case "$RELSTATUS" in
  alpha*|beta*[devel*|rc*)
    BUGBASH=chet@cwru.edu ;;
  *)
    BUGBASH=bug-bash@gnu.org ;;
  esac

  case "$RELSTATUS" in
    alpha*|beta*[devel*|rc*)
    echo "$0: This is a testing release. Would you like your bug report"
    echo "$0: to be sent to the bash-testers mailing list?"
    echo $n "$0: Send to bash-testers? $c"
    read ans
    case "$ans" in
      y*|Y*)
        BUGBASH="${BUGBASH},${BASHTESTERS}" ;;
      esac ;;
  esac

  BUGADDR="${1-BUGBASH}"

if [ -z "$DEFEDITOR" ] & & [ -z "$EDITOR" ]; then
  if [ -x /usr/bin/editor ]; then
    DEFEDITOR=editor
  elif [ -x /usr/local/bin/ce ]; then
    DEFEDITOR=ce
  elif [ -x /usr/local/bin/emacs ]; then
    DEFEDITOR=emacs
  fi
```
elif [-x /usr/contrib/bin/emacs ]; then
DEFEDITOR=emacs
elif [-x /usr/bin/emacs ]; then
DEFEDITOR=emacs
elif [-x /usr/bin/xemacs ]; then
DEFEDITOR=xemacs
elif [-x /usr/contrib/bin/jove ]; then
DEFEDITOR=jove
elif [-x /usr/local/bin/jove ]; then
DEFEDITOR=jove
elif [-x /usr/bin/vi ]; then
DEFEDITOR=vi
else
    echo "$0: No default editor found: attempting to use vi" >&2
DEFEDITOR=vi
fi

: ${EDITOR=$DEFEDITOR}

: ${USER=${LOGNAME-`whoami`}}

trap 'rm -rf "$TEMPDIR"; exit 1' 1 2 3 13 15
trap 'rm -rf "$TEMPDIR"' 0

UN=
if (uname) >/dev/null 2>&1; then
UN=`uname -a`
fi

if [-f /usr/lib/sendmail ]; then
    RMAIL="/usr/lib/sendmail"
    SMARGS="-i -t"
elif [-f /usr/sbin/sendmail ]; then
    RMAIL="/usr/sbin/sendmail"
    SMARGS="-i -t"
else
    RMAIL=rmail
    SMARGS="$BUGADDR"
fi

INITIAL_SUBJECT='[50 character or so descriptive subject here (for reference)]'

cat > "$TEMPFILE1" <<EOF
From: ${USER}
To: ${BUGADDR}
Subject: ${INITIAL_SUBJECT}
EOF
Configuration Information [Automatically generated, do not change]:
Machine: $MACHINE
OS: $OS
Compiler: $CC
Compilation CFLAGS: $CFLAGS
uname output: $UN
Machine Type: $MACHTYPE

Bash Version: $RELEASE
Patch Level: $PATCHLEVEL
Release Status: $RELSTATUS

Description:
[Detailed description of the problem, suggestion, or complaint.]

Repeat-By:
[Describe the sequence of events that causes the problem to occur.]

Fix:
[Description of how to fix the problem. If you don't know a fix for the problem, don't include this section.]
EOF

cp "$TEMPFILE1" "$TEMPFILE2"
chmod u+w "$TEMPFILE1"

trap "2# ignore interrupts while in editor

edstat=1
while [ $edstat -ne 0 ]; do
  $EDITOR "$TEMPFILE1"
edstat=$?
if [ $edstat -ne 0 ]; then
echo "$0: editor "$EDITOR" exited with nonzero status."
echo "$0: Perhaps it was interrupted."
echo "$0: Type \y to give up, and lose your bug report;"
echo "$0: type \n to re-enter the editor."
echo $n "$0: Do you want to give up? $c"
read ans
case "$ans" in
  [Yy]*) exit 1 ;;
esac
continue
# find the subject from the temp file and see if it's been changed
CURR_SUB=`grep '^Subject: ' "$TEMPFILE1" | sed 's|^Subject:[ ]*||' | sed 1q`

case ""$CURR_SUB"
"$"{INITIAL_SUBJECT}'")
  echo
  echo "$0: You have not changed the subject from the default."
  echo "$0: Please use a more descriptive subject header."
  echo "$0: Type \\y' to give up, and lose your bug report;"
  echo "$0: type \\n' to re-enter the editor."
  echo $n "$0: Do you want to give up? $c"

read ans

  case "$ans" in
  [Yy]*) exit 1 ;;
  esac

  echo "$0: The editor will be restarted in five seconds."
  sleep 5
  edstat=1
  ::;
  esac

done

trap 'rm -rf "$TEMPDIR"; exit 1' # restore trap on SIGINT

if cmp -s "$TEMPFILE1" "$TEMPFILE2"
  then
  echo "File not changed, no bug report submitted."
  exit
  fi

echo $n "Send bug report to $BUGADDR? [y/n] $c"
read ans

  case "$ans" in
  [Nn]*) exit 0 ;;
  esac

  ${RMAIL} $SMARGS < "$TEMPFILE1" || {
  cat "$TEMPFILE1" >> $HOME/dead.bashbug
  echo "$0: mail failed: report saved in $HOME/dead.bashbug" >&2
  }

  exit 0
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Version 3, 29 June 2007

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        id MAA01565; Tue, 1 Aug 1995 12:13:18 -0400 (from mikel@ora.com for <chet@odin.INS.CWRU.Edu>)
Received: (from fax@localhost) by ruby.ora.com (8.6.12/8.6.11) with UUCP id MAA23251; Tue, 1 Aug 1995 12:07:51 -0400
Received: by los.ora.com (4.1/Spike-2.1)
        id AA00672; Tue, 1 Aug 95 08:57:32 EDT
Date: Tue, 1 Aug 95 08:57:32 EDT
From: mikel@ora.com (Michael Loukides)
Message-Id: <9508011257.AA00672@los.ora.com>
Subject: Re: Ksh debugger from Rosenblatt's book [for bash]
To: Chet Ramey <chet@odin.INS.CWRU.Edu>
Cc: cmarie@ora.com, cam@iinet.com.au, brosenblatt@tm.com
In-Reply-To: Chet Ramey <chet@odin.INS.CWRU.Edu>, Mon, 31 Jul 1995 16:22:48 -0400

I've modified a (modified) version of Bill Rosenblatt's ksh debugger to work with bash-2.0. Does ORA have any problem with me distributing it with bash-2.0?

That's great!

Go ahead and circulate it; in fact, we should probably grab it and stick it in our ftp archive, and put a reference to it in the book. (Too late to actually discuss the thing, at least for this edition).

-------
From spcecdt@armory.com Wed May 10 10:21:11 1995
Flags: 10
Return-Path: spcecdt@armory.com
Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP (8.6.10+cwru/CWRU-2.1-ins)
        id KAA22876; Wed, 10 May 1995 10:21:10 -0400 (from spcecdt@armory.com for <chet@odin.INS.CWRU.Edu>)
Received: from deepthought.armory.com (mmdf@deepthought.armory.com [192.122.209.42]) by po.cwru.edu with SMTP (8.6.10+cwru/CWRU-2.3)
        id BAA16354; Wed, 10 May 1995 01:33:22 -0400 (from spcecdt@armory.com for <chet@po.cwru.edu>)
From: John DuBois <spcecdt@armory.com>
Date: Tue, 9 May 1995 22:33:12 -0700
Sure. The canonical versions are available on ftp.armory.com; you might want to pick up the latest versions before modifying them.

John

On May 9, 1:36pm, Chet Ramey wrote:

Hi. I'm the maintainer of bash (the GNU `Bourne Again shell') for the FSF.

I picked up a tar file of ksh scripts you wrote from an anon FTP site a while back. I'd like your permission to include modified versions of some of them in the next major bash distribution (with proper credit given, of course). Is it OK if I do that?

Chet Ramey

--
``The lyf so short, the craft so long to lerne." - Chaucer

Chet Ramey, Case Western Reserve UniversityInternet: chet@po.CWRU.Edu
-- End of excerpt from Chet Ramey
Hi. I snagged some of your bash functions from your home directory on
the FSF machines (naughty, I know), and I was wondering if you'd let
me distribute them with bash-2.0. Thanks.

Sure. I think there's a later copy in
~/ftp/friedman/shell-inits/init-4.89.tar.gz. There are also some elisp and
es frobs in that file.

It should serve as a pretty good example of how to get carried away. :-)

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#

1.63 bc 1.06.95 :1.el6

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* configure.ac, Makefile.am: The original versions were derived from the
ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were
derived form the ones in the Monotone project, revision
3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp:
These files were derived from the file_handle, systembuf, pipe and pistream
classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk,
admin/check-style-cpp.awk, admin/check-style-shell.awk: These files,
except the first one, were first implemented in the Buildtool project.
They were later adapted to be part of Boost.Process and, during that
process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

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1.65 bind 9.9.4 :29.el7

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* configure.ac, Makefile.am: The original versions were derived from the
  ones in the XML Catalog Manager project, version 2.2.

  Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were
derived form the ones in the Monotone project, revision
3a0982da308228d796df35f98d787c5c0f2bb5b6.

  Author: Julio Merino <jmmv@NetBSD.org>
* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp:
These files were derived from the file_handle, systembuf, pipe and pistream
classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk,
admin/check-style-cpp.awk, admin/check-style-shell.awk: These files,
except the first one, were first implemented in the Buildtool project.
They were later adapted to be part of Boost.Process and, during that
process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

===========================================================================
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2

1.66 bind 9.9.4 :73.el7_6

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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/uic.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cfc2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp:
These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

===========================================================================

vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2

1.67 bind 9.9.4 :50.el7_3.1

1.67.1 Available under license:

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The development of Dynamically Loadable Zones (DLZ) for Bind 9 was conceived and contributed by Rob Butler.

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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>
* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787ec5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

===========================================================================
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2

1.68 bind 9.9.4-51
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    <xsl:param name="text"/>
    <xsl:value-of select="$isc.copyright.leader"/>
    <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
    <xsl:text>&#10;</xsl:text>
    <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
    <xsl:if test="translate($rest, '&#9;&#32;', '')">
      <xsl:call-template name="isc.copyright.format">
        <xsl:with-param name="text" select="$rest"/>
      </xsl:call-template>
    </xsl:if>
  </xsl:template>
  
  <xsl:variable name="isc.copyright.text">
    
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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

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* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5c6f2bb5b6.

  Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.
Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, 
admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, 
extcept the first one, were first implemented in the Buildtool project. 
They were later adapted to be part of Boost.Process and, during that 
process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cfe2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

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* configure.ac, Makefile.am: The original versions were derived from the
  ones in the XML Catalog Manager project, version 2.2.

  Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were
derived form the ones in the Monotone project, revision
3a0982da308228d796df35f98d787c5cffe2bb5b6.
Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp:
  These files were derived from the file_handle, systembuf, pipe and pistream
  classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk,
  admin/check-style-cpp.awk, admin/check-style-shell.awk: These files,
  except the first one, were first implemented in the Buildtool project.
  They were later adapted to be part of Boost.Process and, during that
  process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>
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1.72 bind-libs 9.9.4-50

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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/uic: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796d35f98d787c5c6f2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and postream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
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<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

<xsl:stylesheet xmlns:xsl="http://www.w3.org/1999/XSL/Transform" version="1.0">
  <xsl:template name="isc.copyright.format">
    <xsl:param name="text"/>
    <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
    <xsl:value-of select="$isc.copyright.leader"/>
    <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
    <xsl:if test="translate($rest, '&#9;&#32;', '')">
      <xsl:call-template name="isc.copyright.format">
        <xsl:with-param name="text" select="$rest"/>
      </xsl:call-template>
    </xsl:if>
  </xsl:template>

  <xsl:variable name="isc.copyright.text">
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  </xsl:variable>
</xsl:stylesheet>
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1.73 bind-libs 9.9.4 :61.el7

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* configure.ac, Makefile.am: The original versions were derived from the
  ones in the XML Catalog Manager project, version 2.2.

  Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were
derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

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* configure.ac, Makefile.am: The original versions were derived from the
ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were
derived form the ones in the Monotone project, revision
3a0982da308228d796df35f98d787c5c9ff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp:
These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

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vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2

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    <xsl:param name="text"/>
    <xsl:value-of select="$isc.copyright.leader"/>
    <xsl:value-of select="normalize-space(substring-before($text,'&#10;'))"/>
    <xsl:if test="translate(substring-after($text,'&#10;'), '&#9;&#32;', '')">
      <xsl:call-template name="isc.copyright.format">
        <xsl:with-param name="text" select="substring-after($text,'&#10;')"/>
      </xsl:call-template>
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clarify this fact.

* configure.ac, Makefile.am: The original versions were derived from the
ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were
derived form the ones in the Monotone project, revision
3a0982da308228d796df35f98d787c5:cf2bb5b6,

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp:
These files were derived from the file_handle, systembuf, pipe and pistream
classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk,
admin/check-style-cpp.awk, admin/check-style-shell.awk: These files,
except the first one, were first implemented in the Buildtool project.
They were later adapted to be part of Boost.Process and, during that
process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

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 vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2

1.76 bind-libs-lite 9.9.4 :50.el7_3.1

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* configure.ac, Makefile.am: The original versions were derived from the
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  Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were
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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were derived form the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cfff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.
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The development of Dynamically Loadable Zones (DLZ) for Bind 9 was conceived and contributed by Rob Butler.

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* atf-c/ui.c: The format_paragraph and format_text functions were derived form the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

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* configure.ac, Makefile.am: The original versions were derived from the
ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were
derived form the ones in the Monotone project, revision
3a0982da308228d796df35f98d787c5cfff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp:
These files were derived from the file_handle, systembuf, pipe and pistream
classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk,
admin/check-style-cpp.awk, admin/check-style-shell.awk: These files,
except the first one, were first implemented in the Buildtool project.
They were later adapted to be part of Boost.Process and, during that
process, the shell script was created.

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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cbb2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and piostream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

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* configure.ac, Makefile.am: The original versions were derived from the
ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were
derived form the ones in the Monotone project, revision
3a0982da308228d796df35f98d787c5cffe2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp:
These files were derived from the file_handle, systembuf, pipe and pistream
classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk,
admin/check-style-cpp.awk, admin/check-style-shell.awk: These files,
except the first one, were first implemented in the Buildtool project.
They were later adapted to be part of Boost.Process and, during that
process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

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vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2

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* configure.ac, Makefile.am: The original versions were derived from the 
one's in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were 
derived form the ones in the Monotone project, revision 
3a0982da308228d796df35f98d787c5c6f2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp:
These files were derived from the file_handle, systembuf, pipe and piostream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were derived form the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

  Author: Julio Merino <jmmv@users.sourceforge.net>

  * atf-cui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5c8f2bb5b6.

  Author: Julio Merino <jmmv@NetBSD.org>

  * atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.
Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

===========================================================================
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
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The development of Dynamically Loadable Zones (DLZ) for Bind 9 was conceived and contributed by Rob Butler.

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* configure.ac, Makefile.am: The original versions were derived from the
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  Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were
derived form the ones in the Monotone project, revision
3a0982da308228d796df35f98d787c5cffe2bb5b6.

  Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp:

---
These files were derived from the file_handle, systembuf, pipe and piostream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

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* configure.ac, Makefile.am: The original versions were derived from the
  ones in the XML Catalog Manager project, version 2.2.

  Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were
derived form the ones in the Monotone project, revision
3a0982da308228d796df35f98d787c5c7f2bb5b6.

  Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp:
  These files were derived from the file_handle, systembuf, pipe and pistream
  classes and tests found in the Boost.Process library.

  Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk,
  admin/check-style-cpp.awk, admin/check-style-shell.awk: These files,
  except the first one, were first implemented in the Buildtool project.
  They were later adapted to be part of Boost.Process and, during that
  process, the shell script was created.
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5eff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

===========================================================================
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2

1.81 bind-utils 9.9.4 :50.el7_3.1

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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.
Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were
derived form the ones in the Monotone project, revision
3a0982da308228d796df35f98d787c5cffe2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp:
These files were derived from the file_handle, systembuf, pipe and pistream
classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk,
admin/check-style-cpp.awk, admin/check-style-shell.awk: These files,
except the first one, were first implemented in the Buildtool project.
They were later adapted to be part of Boost.Process and, during that
process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

===========================================================================
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

   Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5e2b35b6.

   Author: Julio Merino <jmmv84@gmail.com>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

   Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk,
admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

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vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
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The development of Dynamically Loadable Zones (DLZ) for Bind 9 was conceived and contributed by Rob Butler.

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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

  Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were derived form the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

  Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and piostream classes and tests found in the Boost.Process library.

  Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

  Author: Julio Merino <jmmv84@gmail.com>

===========================================================================
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
1.83 bind-utils 9.9.4

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++++++++++++++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.
Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT sytaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30.
H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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(This file is under construction.)

If you've contributed to gas and your name isn't listed here, it is not meant as a slight. I just don't know about it. Email me, nickc@redhat.com and I'll correct the situation.

This file will eventually be deleted: The general info will go into the documentation, and info on specific files will go into an AUTHORS file, as requested by the FSF.

++++++++++++++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several
processors, breaking gas up to handle multiple object file format
backends (including heavy rewrite, testing, an integration of the coff
and b.out backends), adding configuration including heavy testing and
verification of cross assemblers and file splits and renaming,
converted gas to strictly ansi C including full prototypes, added
support for m680[34]0 & cpu32, considerable work on i960 including a
coff port (including considerable amounts of reverse engineering), a
sparc opcode file rewrite, decstation, rs6000, and hp300hpux host
ports, updated "know" assertions and made them work, much other
reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of
the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan.
Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of
Buffalo University and Torbjorn Granlund of the Swedish Institute of
Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS
back end (tc-mips.c, tc-mips.h), and contributed Rose format support
that hasn't been merged in yet. Ralph Campbell worked with the MIPS
code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors
(tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format
(obj-ieee), was written by Steve Chamberlain of Cygnus Solutions.
Steve also modified the COFF back end (obj-coffbfd) to use BFD for
some low-level operations, for use with the Hitachi, 29k and Zilog
targets.

John Gilmore built the AMD 29000 support, added .include support, and
simplified the configuration of which versions accept which
pseudo-ops. He updated the 68k machine description so that Motorola's
opcodes always produced fixed-size instructions (e.g. jsr), while
synthetic instructions remained shrinkable (jbsr). John fixed many
bugs, including true tested cross-compilation support, and one bug in
relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT
syntaxes for the 68k, completed support for some COFF targets (68k,
i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael
Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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```
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```

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```
@example
```

@end example
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@var{signature of Ty Coon}, 1 April 1990
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That's all there is to it!
(This file is under construction.)-*- text -*-

If you've contributed to gas and your name isn't listed here, it is not meant as a slight. I just don't know about it. Email me, nickc@redhat.com and I'll correct the situation.

This file will eventually be deleted: The general info will go into the documentation, and info on specific files will go into an AUTHORS file, as requested by the FSF.

++++++++++++++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.
K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated “know” assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn’t been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola’s opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.
Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelson contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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1.88 bison 2.7 :4.el7
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#!/usr/bin/perl -0777 -pi

# Update b4_copyright invocations or b4_copyright_years definitions to
# include the current year.

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use strict;
use warnings;
my $margin = 72;

my $this_year = $ENV{UPDATE_COPYRIGHT_YEAR};
if (!$this_year || $this_year !~ m/^\d{4}$/)
{
    my ($sec, $min, $hour, $mday, $month, $year) = localtime (time());
    $this_year = $year + 1900;
}
my $old_re = <<'EOF'
( (?:^|\n)
  #BEFORE
  (?:
    b4_copyright\(\[^\]\[*
    | m4_(?:push|pop)\(\[b4_copyright_years
  )
  #AFTER
  )
  (?:
    \s*
    ( \[^\] (?:\d{4}(?:,\s*|-))* \d{4} )?\s* )
  )?
)
EOF;

while (/($old_re)/gx)
{
    my $start = pos() - length ($1);
    my $b4_copyright_line = $2;
    my $year_lines = $3;
    my $final_year = $4;
    $year_lines .= ');
    # If there was a second argument, it contains years, so update them.
    if ($final_year)
    {
        $b4_copyright_line .= ',';
        if ($final_year != $this_year)
        {
            # Update the year.
            $year_lines =~ s/$final_year/$final_year, $this_year/;
        }
    }
    # Normalize all whitespace.
    $year_lines =~ s/\s+/ /g;

# Put spaces after commas.
$year_lines =~ s/, ?, /g;

# Compress to intervals.
$year_lines =~
  s/
    \(\d{4}\)
  (?:\n    (\-|)\n    (?!\n      if  \($2 eq '\-'\) \{ \^\d{4}\}; \}
      elsif (!\$3) \{ \$1 + 1; \}
      else \{ \$3 + 1; \}
    })\n  )+$/\1-$3/gx;

# Format within margin.
my $year_lines_new;
my $indent = index ($b4_copyright_line, '\[');
--$indent if ($b4_copyright_line =~ m/\^\n/);
while (length $year_lines)
{
  my $text_margin = $margin - $indent;
  if (($year_lines =~ s/^(.{1,$text_margin})(?: |$)//) || ($year_lines =~ s/^\([\S\]+)(?: |$)//))
    { my $line = "$n" . (' 'x$indent) . $1;
      ++$indent if (!$year_lines_new);
      $year_lines_new .= $line;
    }
  else
    {
      # Should be unreachable, but we don’t want an infinite
      # loop if it can be reached.
      die;
    }
}

# Replace the old invocation. Should never die.
die if (!s/$old_re\G/$b4_copyright_line$year_lines_new/x);

# Prepare for the next search.
pos () = $start + length ("$b4_copyright_line$year_lines_new");
while (/\bb4\_copyright\()/g)
{
  my $start = pos () - length ($1);
  my $end = pos ();
  my $re = $old_re;
  pos () = $start;
  $re =~ s/\#BEFORE/\G/;
  if (!/$re/x)
  {
    my $line = (substr ($_, 0, $start) =~ s/\n/\n/g) + 1;
    print STDERR
      "$ARGV:$line: warning: failed to update a b4\_copyright\n";
  }
  pos () = $end;
}
while (/\bb4\_copyright\_years\])/g)
{
  my $start = pos () - length ($1);
  my $end = pos ();
  my $re = $old_re;
  $re =~ s/\#AFTER/\G/;
  if (!/$re/x)
  {
    # The substr operation blows away pos (), so restoring pos ()
    # at the end is necessary.
    my $line = (substr ($_, 0, $start) =~ s/\n/\n/g) + 1;
    print STDERR
      "$ARGV:$line: warning: failed to update a"
      " b4\_copyright\_years\n";
  }
  pos () = $end;
}
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#define BOOST_INTRUSIVE_DETAIL_MPL_HPP

#include <boost/intrusive/detail/config_begin.hpp>
#include <cstddef>

namespace boost {
  namespace intrusive {
    namespace detail {
      typedef char one;
      struct two { one _[2]; };

      template< bool C_ >
      struct bool_
      {
        static const bool value = C_;   
      };

      typedef bool_<true>       true_;
      typedef bool_<false>      false_;

      typedef true_  true_type;
      typedef false_ false_type;

      typedef char yes_type;
      struct no_type
      {
        char padding[8];
      };

      template <bool B, class T = void>
      struct enable_if_c {
        typedef T type;
      };

      template <class T>
      struct enable_if_c<false, T> {};

      template <class Cond, class T = void>
      struct enable_if_c<Cond::value, T> {};

      template<class F, class Param>
      struct apply
      {
        typedef typename F::template apply<Param>::type type;
      };
    }
  }
}
#include <boost/intrusive/detail/config_end.hpp>
template <class T, class U>
class is_convertible
{
    typedef char true_t;
    class false_t { char dummy[2]; }; 
    static true_t dispatch(U);
    static false_t dispatch(...);
    static const T &trigger();
    public:
    static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);
};

template<
    bool C
, typename T1
, typename T2
>
struct if_c
{
    typedef T1 type;
};

template<
    typename T1
, typename T2
>
struct if_c<false,T1,T2>
{
    typedef T2 type;
};

template<
    typename C
, typename T1
, typename T2
>
struct if_
{
    typedef typename if_c<0 != C::value, T1, T2>::type type;
};

template<
    bool C
, typename F1
, typename F2
>
struct eval_if_c
  : if_c<C,F1,F2>::type
{};

template<
  typename C
 , typename T1
 , typename T2
>
struct eval_if
  : if_<C,T1,T2>::type
{};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
{
  typedef T type;
};

#if defined(BOOST_MSVC) || defined(__BORLANDC__)
#define BOOST_INTRUSIVE_TT_DECL __cdecl
#else
#define BOOST_INTRUSIVE_TT_DECL
#endif
#if defined(_MSC_EXTENSIONS) && !defined(__BORLAND__) && !defined(_WIN64) &&
!defined(UNDER_CE)
#define BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS
#endif

template <typename T>
struct is_unary_or_binary_function_impl
{  static const bool value = false;  };

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
#ifndef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS
#endif

template <typename R>
struct is_unary_or_binary_function_impl<R (*)(())>
{  static const bool value = true;  };

template <typename R>
struct is_unary_or_binary_function_impl<R (*)(...)>
{  static const bool value = true;  };

#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS
template <typename R>
struct is_unary_or_binary_function_impl<R (__stdcall*)(...)>
{  static const bool value = true;  };

#ifdef _MANAGED

template <typename R>
struct is_unary_or_binary_function_impl<R (__fastcall*)(...)>
{  static const bool value = true;  };
#endif

template <typename R>
struct is_unary_or_binary_function_impl<R (__cdecl*)(...)>
{  static const bool value = true;  };

#ifndef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (*)(T0)>
{  static const bool value = true;  };

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (*)(T0...)>
{  static const bool value = true;  };
#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (__stdcall*)(T0)>
{  static const bool value = true;  };
#endif

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
#ifndef _MANAGED

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (__fastcall*)(T0)>
{  static const bool value = true;  };
#endif
template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0)>
{  static const bool value = true;  }

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0...)>
{  static const bool value = true;  }

#endif

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
#ifndef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (*)(T0, T1)>
{  static const bool value = true;  }

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (*)(T0, T1...)>
{  static const bool value = true;  }

#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__stdcall*)(T0, T1)>
{  static const bool value = true;  }

#ifndef _MANAGED

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__fastcall*)(T0, T1)>
{  static const bool value = true;  }

#endif

#endif

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0, T1)>
{  static const bool value = true;  }

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0, T1...)>
{  static const bool value = true;  }

#endif
{ static const bool value = false; };

template< typename T>
struct is_unary_or_binary_function
{ static const bool value = is_unary_or_binary_function_impl<T>::value; };

//boost::alignment_of yields to 10K lines of preprocessed code, so we
//need an alternative
template <typename T> struct alignment_of;

template <typename T>
struct alignment_of_hack
{
    char c;
    T t;
    alignment_of_hack();
};

template <unsigned A, unsigned S>
struct alignment_logic
{
    static const std::size_t value = A < S ? A : S;
};

template < typename T>
struct alignment_of
{
    static const std::size_t value = alignment_logic
        < sizeof(alignment_of_hack<T>) - sizeof(T)
        , sizeof(T)
        >::value;
};

template <typename T, typename U>
struct is_same
{
    typedef char yes_type;
    struct no_type
    {
        char padding[8];
    };

    template <typename V>
    static yes_type is_same_tester(V*, V*);
    static no_type is_same_tester(...);

    static T *t;
    static U *u;
static const bool value = sizeof(yes_type) == sizeof(is_same_tester(t,u));
;

template<typename T>
struct add_const
{  typedef const T type;  };

template<typename T>
struct remove_const
{  typedef T type;  };

template<typename T>
struct remove_const<const T>
{  typedef T type;  };

template<typename T>
struct remove_cv
{  typedef T type;  };

template<typename T>
struct remove_cv<const T>
{  typedef T type;  };

template<typename T>
struct remove_cv<const volatile T>
{  typedef T type;  };

template<typename T>
struct remove_cv<volatile T>
{  typedef T type;  };

template<class T>
struct remove_reference
{
  typedef T type;
};

template<class T>
struct remove_reference<T&>
{
  typedef T type;
};

template<class Class>
class is_empty_class
{
  template <typename T>
struct empty_helper_t1 : public T
{
    empty_helper_t1();
    int i[256];
};

struct empty_helper_t2
{ int i[256];};

public:
static const bool value = sizeof(empty_helper_t1<Class>) == sizeof(empty_helper_t2);
};

template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1 + ls_zeros<(S>>1u)::value);
};

template<>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
    static const std::size_t value = 0;
};

} //namespace detail
} //namespace intrusive
} //namespace boost

#include <boost/intrusive/detail/config_end.hpp>

#endif //BOOST_INTRUSIVE_DETAIL_MPL_HPP

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// http://www.boost.org/LICENSE_1_0.txt)
//
//
#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
#define BOOST_INTERPROCESS_DETAIL_MPL_HPP

#if (defined _MSC_VER) && (_MSC_VER >= 1200)
#pragma once
#endif

#include <cstddef>

namespace boost {
namespace interprocess {
namespace ipcdetail {

template <class T, T val>
struct integral_constant {
  static const T value = val;
  typedef integral_constant<T,val> type;
};

template< bool C_ >
struct bool_ : integral_constant<bool, C_> {
  static const bool value = C_;
};

typedef bool_<true>        true_;
typedef bool_<false>       false_;
typedef true_  true_type;
typedef false_ false_type;

typedef char yes_type;
struct no_type {
  char padding[8];
};

template <bool B, class T = void>
struct enable_if_c { 
  typedef T type;
};

typedef enable_if_c<false, T> {};

} // namespace ipcdetail
} // namespace interprocess
} // namespace boost

} // namespace BOOST_INTERPROCESS_DETAIL_MPL_HPP
template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {}
;

template <class Cond, class T = void>
struct disable_if : public enable_if_c<!Cond::value, T> {}
;

template <class T, class U>
class is_convertible
{
    typedef char true_t;
    class false_t { char dummy[2]; }; // 2
    static true_t dispatch(U);
    static false_t dispatch(...);
    static T trigger();
    public:
    static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);
};

template<
    bool C
    , typename T1
    , typename T2
>
struct if_c
{
    typedef T1 type;
};

template<
    typename T1
    , typename T2
>
struct if_c<false,T1,T2>
{
    typedef T2 type;
};

template<
    typename T1
    , typename T2
    , typename T3
>
struct if_
{
    typedef typename if_c<0 != T1::value, T2, T3>::type type;
};
template <class Pair>
struct select1st
// : public std::unary_function<Pair, typename Pair::first_type>
{
    template <class OtherPair>
    const typename Pair::first_type& operator()(const OtherPair& x) const
    {  return x.first;  }

    const typename Pair::first_type& operator()(const typename Pair::first_type& x) const
    {  return x;  }
};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
// : public std::unary_function<T,T>
{
    typedef T type;
    const T& operator()(const T& x) const
    { return x; }
};

template< std::size_t S >
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<(S >> 1u)>::value);
};

template <>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template <>
struct ls_zeros<1>
{
    static const std::size_t value = 0;
};

} // namespace ipcdetail 
} // namespace interprocess 
} // namespace boost 

#endif //ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP

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//
//
/////////////////////////////////////////////////////////////////////////////

#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
#define BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

#if (defined _MSC_VER) && (_MSC_VER >= 1200)
    #pragma once
#endif

#include <cstddef>

namespace boost {
namespace container {
namespace container_detail {

    template <class T, T val>
    struct integral_constant {
        static const T value = val;
        typedef integral_constant<T,val> type;
    };

    template< bool C_ >
    struct bool_ : integral_constant<bool, C_>
    {
        static const bool value = C_;  
        operator bool() const { return bool_::value; } 
    };

    typedef bool_<true>        true_;
    typedef bool_<false>       false_;

    typedef true_  true_type;
    typedef false_ false_type;

    typedef char yes_type;
    struct no_type {
        char padding[8];
    };

} // namespace container_detail
} // namespace container
} // namespace boost

#endif // BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
template <bool B, class T = void>
struct enable_if_c {
typedef T type;
};

template <class T>
struct enable_if_c<false, T> {};

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {};

template <class Cond, class T = void>
struct disable_if : public enable_if_c<!Cond::value, T> {};

template <bool B, class T = void>
struct disable_if_c : public enable_if_c<!B, T> {};

template <class T, class U>
class is_convertible
{
    typedef char true_t;
    class false_t { char dummy[2]; }; static true_t dispatch(U);
    class false_t dispatch(...);
    static T trigger();
    public:
    enum { value = sizeof(dispatch(trigger())) == sizeof(true_t) }; }

template<
    bool C,
    typename T1,
    typename T2>
struct if_c
{
    typedef T1 type;
};

template<
    typename T1,
    typename T2>
struct if_c<false,T1,T2>
{
    typedef T2 type;
};
template<
   typename T1
 , typename T2
 , typename T3
>
struct if_<
{
   typedef typename if_c<0 != T1::value, T2, T3>::type type;
};

template <class Pair>
struct select1st
//   : public std::unary_function<Pair, typename Pair::first_type>
{
   template<class OtherPair>
   const typename Pair::first_type& operator()(const OtherPair& x) const
   {  return x.first;   }
   const typename Pair::first_type& operator()(const typename Pair::first_type& x) const
   {  return x;   }
};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
//   : public std::unary_function<T,T>
{
   typedef T type;
   const T& operator()(const T& x) const
   { return x;   }
};

template<std::size_t S>
struct ls_zeros
{
   static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<(S >> 1u)>::value);
};

template<>
struct ls_zeros<0>
{
   static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
static const std::size_t value = 0;

};

template<typename T> struct unvoid { typedef T type; };
template<> struct unvoid<void> { struct type { }; };
template<> struct unvoid<const void> { struct type { }; };
} //namespace container_detail {
} //namespace container {
} //namespace boost {

#endif   //#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
[============================================================================
Boost.Geometry (aka GGL, Generic Geometry Library)

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All the value based traits in this library conform to MPL’s requirements for an Integral Constant type: that includes a number of rather intrusive workarounds for broken compilers.

Purely as an implementation detail, this means that `<code class="computeroutput">true_type</code>` inherits from `<code class="computeroutput">boost</code>`, `<code class="computeroutput">false_type</code>` inherits from `<code class="computeroutput">boost</code>`, and `<code class="computeroutput">integral_constant</code>` inherits from `<code class="computeroutput">integral_c</code>` (provided `<code class="computeroutput">T</code>` is not `<code class="computeroutput">bool</code>`)

---

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1589
[section:mpl MPL Interoperability]

All the value based traits in this library conform to MPL's requirements for an Integral Constant type: that includes a number of rather intrusive workarounds for broken compilers.

Purely as an implementation detail, this means that `__true_type` inherits from ` boost::mpl::true_ `, `__false_type` inherits from ` boost::mpl::false_ `, and `__integral_constant<T, v>` inherits from ` boost::mpl::integral_c<T,v> ` (provided `T` is not `bool`)

[endsect]
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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the
generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson (jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs (detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks (agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn’t made it into the released version of the collector, yet.) This package was debianized by Vladimir Prus <ghost@cs.msu.su> on Wed, 17 July 2002, 19:27:00 +0400.

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Some portions are also:

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#include "licence_info.hpp"
#include "bcp_imp.hpp"
#include "fileview.hpp"
#include <fstream>
#include <iomanip>
#include <cstring>
#include <stdexcept>
#include <boost/lexical_cast.hpp>
#include <boost/filesystem/operations.hpp>
#include <boost/throw_exception.hpp>

// split_path is a small helper for outputting a path name,
// complete with a link to that path:

struct split_path
{
    const fs::path& root;
    const fs::path& file;
    split_path(const fs::path& r, const fs::path& f)
        : root(r), file(f){}
private:
    split_path& operator=(const split_path&);
};

std::ostream& operator << (std::ostream& os, const split_path& p)
{
    os << "<a href="" << (p.root / p.file).string() << ")" << p.file.string() << "</a>";
    return os;
}

std::string make_link_target(const std::string& s)
{
    // convert an arbitrary string into something suitable
// for an <a> name:
std::string result;
for(unsigned i = 0; i < s.size(); ++i)
{
    result.append(1, static_cast<std::string::value_type>(std::isalnum(s[i]) ? s[i] : '_'));
}
return result;

void bcp_implementation::output_license_info()
{
    std::pair<const license_info*, int> licenses = get_licenses();

    std::map<int, license_data>::const_iterator i, j;
i = m_license_data.begin();
j = m_license_data.end();

    std::ofstream os(m_dest_path.string().c_str());
    if(!os)
    {
        std::string msg("Error opening ");
        msg += m_dest_path.string();
        msg += " for output."
        std::runtime_error e(msg);
        boost::throw_exception(e);
    }

    os <<
"<!DOCTYPE HTML PUBLIC "-/W3C//DTD HTML 4.0 Transitional//EN">\n"
"<html>
"<head>
"<title>Boost Licence Dependency Information";
if(m_module_list.size() == 1)
{
    os << " for " << *(m_module_list.begin());
}

os <<
"</title>\n"
"</head>\n"
"<body>\n"
"<H1>Boost Licence Dependency Information";
if(m_module_list.size() == 1)
{
    os << " for " << *(m_module_list.begin());
}

os <<
"</H1>\n"
"<H2>Contents</h2>\n"
"<pre><a href="#input">Input Information</a>\n"
if(!m_bsl_summary_mode)
    os << "<a href="#summary">Licence Summary</a>\n"
    os << "<a href="#details">Licence Details</a>\n"
while(i != j)
{
    // title:
    os << "<a href="#" make_link_target(licenses.first[i->first].license_name) "">" licenses.first[i->first].license_name << "</a>\n"
    ++i;
}

os << "<a href="#files">Files with no recognised licence</a>\n"
"<a href="#authors">Files with no recognised copyright holder</a>\n"
if(!m_bsl_summary_mode)
{
    os <<
        "Moving to the Boost Software License...\n"
        "<a href="#bsl-converted">Files that can be automatically converted to the Boost Software License</a>\n"
        "<a href="#to-bsl">Files that can be manually converted to the Boost Software License</a>\n"
        "<a href="#not-to-bsl">Files that can NOT be moved to the Boost Software License</a>\n"
        "<a href="#need-bsl-authors">Authors we need to move to the Boost Software License</a>\n"
        "<a href="#copyright">Copyright Holder Information</a>\n"
}

os <<
    "<a href="#depend">File Dependency Information</a>\n"
"</pre>

// // input Information:
//
os << "<a name="input"/\n"<h2>Input Information</h2>\n"
if(m_scan_mode)
    os << "<P>The following files were scanned for boost dependencies:<BR>");
else
    os << "<P>The following Boost modules were checked:<BR>\n"

std::list<std::string>::const_iterator si = m_module_list.begin();
std::list<std::string>::const_iterator sj = m_module_list.end();
while(si != sj)
{
    os << "<BR>\n"
    ++si;
}

os << "</p>

The Boost path was: <code>" << m_boost_path.string() << "</code></p>

// // extract the boost version number from the boost directory tree,
// not from this app (which may have been built from a previous
// version):

fileview version_file(m_boost_path / "boost/version.hpp");
static const boost::regex version_regex("^[[:blank:]*#\[[:blank:]*define[[:blank:]]+BOOST_VERSION\[[:blank:]]+(\d+)\]$");
boost::cmatch what;
if(boost::regex_search(version_file.begin(), version_file.end(), what, version_regex))
{
    int version = boost::lexical_cast<int>(what.str(1));
    os << "<p>The Boost version is: " << version / 100000 << "." << version / 100 % 1000 << "." << version % 100 << "</p>\n";
}

// output each license:

i = m_license_data.begin();
j = m_license_data.end();
if(!m_bsl_summary_mode)
{
    // start with the summary:
    //
    os << "<a name="summary">
    Licence Summary</a>
    
    while(i != j)
    {
        // title:
        os << "<H3>" << licenses.first[i->first].license_name << "</H3>\n";
        // license text:
        os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
        // Copyright holders:
        os << "<P>This license is used by " << i->second.authors.size() << " authors and " << i->second.files.size() << " files <a href="#" make_link_target(licenses.first[i->first].license_name) "(see details)</a>";
        os << "</P>";
        ++i;
    }
}

// and now the details:

i = m_license_data.begin();
j = m_license_data.end();
int license_index = 0;
os << "<a name="details">
    Licence Details</a>
    
    while(i != j)
// title:
// os << "<H3><A name="" << make_link_target(licenses.first[i->first].license_name) << ">"></a>" << licenses.first[i->first].license_name << "</H3><\n";

// license text:
// os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
// if(!m_bsl_summary_mode || (license_index >= 3))
{
// Copyright holders:
// os << "This license is used by the following " << i->second.authors.size() << " copyright holders:";

std::set<std::string>::const_iterator x, y;
x = i->second.authors.begin();
y = i->second.authors.end();
while(x != y)
{
os << *x << "<BR><\n";
++x;
}
os << "</P><BLOCKQUOTE>\n";

// Files using this license:
// os << "This license applies to the following " << i->second.files.size() << " files:

std::set<fs::path, path_less>::const_iterator m, n;
m = i->second.files.begin();
n = i->second.files.end();
while(m != n)
{
os << split_path(m_boost_path, *m) << "<br><\n";
++m;
}
os << "</P><BLOCKQUOTE>\n";
}
else
{
os << "This license is used by " << i->second.authors.size() << " authors (list omitted for brevity).";
os << "This license applies to " << i->second.files.size() << " files (list omitted for brevity).";
}
++license_index;
++i;
}

// Output list of files not found to be under license control:
// os << "<h2><a name="files"></a>Files With No Recognisable Licence</h2>";
std::set<fs::path, path_less>::const_iterator i2, j2;
i2 = m_unknown_licenses.begin();
j2 = m_unknown_licenses.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "<br>
    ++i2;
}
os << "</p></BLOCKQUOTE>";

// Output list of files with no found copyright holder:
//
os << "<h2><a name="authors"></a>Files With No Recognisable Copyright Holder</h2>
";

"<P>The following " << m_unknown_authors.size() << " files had no recognisable copyright holder:</P>
<BLOCKQUOTE><P>
    i2 = m_unknown_authors.begin();
j2 = m_unknown_authors.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "<br>
    ++i2;
}
os << "</p></BLOCKQUOTE>";
if(!m_bsl_summary_mode)
{
    // Output list of files that have been moved over to the Boost
    // Software License, along with enough information for human
    // verification.
    //
os << "<h2><a name="bsl-converted"></a>Files that can be automatically converted to the Boost Software
    // License</h2>
";
    "<P>The following " << m_converted_to_bsl.size() << " files can be automatically converted to the Boost
    Software License, but require manual verification before they can be committed to CVS:</P>
";
    if (!m_converted_to_bsl.empty())
    {
        typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>
            ::const_iterator conv_iterator;
        conv_iterator i = m_converted_to_bsl.begin(),
        ie = m_converted_to_bsl.end();
        int file_num = 1;
        while (i != ie)
        {
            os << "<P>[" << file_num ++ "] File: <tt>" << split_path(m_boost_path, i->first)
            "</tt><br><tt>" << i->second.first << "</tt><pre>";
            "</tt><br><tt>" << i->second.second << "</tt><pre>";
            ++i;
        }
    }
// Output list of files that could be moved over to the Boost Software License
//
//os << "<h2><a name="to-bsl"></a>Files that could be converted to the Boost Software License</h2><p>
"<p>The following " << m_can_migrate_to_bsl.size() << " files could be manually converted to the Boost Software License, but have not yet been:<p>
<BLOCKQUOTE><p>
<i2 = m_can_migrate_to_bsl.begin();
j2 = m_can_migrate_to_bsl.end();
while(i2 != j2)
{
  os << split_path(m_boost_path, *i2) << "<br>
  ++i2;
}
os << "</p></BLOCKQUOTE>";
// Output list of files that can not be moved over to the Boost Software License
//
//os << "<h2><a name="not-to-bsl"></a>Files that can NOT be converted to the Boost Software License</h2><p>
"<p>The following " << m_cannot_migrate_to_bsl.size() << " files cannot be converted to the Boost Software License because we need the permission of more authors:<p>
<BLOCKQUOTE><p>
<i2 = m_cannot_migrate_to_bsl.begin();
j2 = m_cannot_migrate_to_bsl.end();
while(i2 != j2)
{
  os << split_path(m_boost_path, *i2) << "<br>
  ++i2;
}
os << "</p></BLOCKQUOTE>";
// Output list of authors that we need permission for to move to the BSL
//
//os << "<h2><a name="need-bsl-authors"></a>Authors we need for the BSL</h2><p>
"<p>Permission of the following authors is needed before we can convert to the Boost Software License. The list of authors that have given their permission is contained in <code>more/blanket-permission.txt</code>:
<BLOCKQUOTE><p>
std::copy(m_authors_for_bsl_migration.begin(), m_authors_for_bsl_migration.end(),
  std::ostream_iterator<std::string>(os, "<br>
  "));
os << "</p></BLOCKQUOTE>";
// output a table of copyright information:
//
//os << "<H2><a name="copyright"></a>Copyright Holder Information</H2><table border="1"<tr>
std::map<std::string, std::set<fs::path, path_less> >::const_iterator ad, ead;
std::copy(m_author_data.begin(), m_author_data.end(),
  std::ostream_iterator<std::string>(os, "<tr>
  "));

ead = m_author_data.end();
while(ad != ead)
{
  os << "<tr><td>" << ad->first << "</td><td>";
  std::set<fs::path, path_less>::const_iterator fi, efi;
  fi = ad->second.begin();
  efi = ad->second.end();
  while(fi != efi)
  {
    os << split_path(m_boost_path, *fi) << " ";
    ++fi;
  }
  os << "</td></tr>
  ++ad;
}
os << "</table>

//
// output file dependency information:
//
// os << "<H2><a name="depend"></a>File Dependency Information</H2><BLOCKQUOTE><pre>
std::map<fs::path, fs::path, path_less>::const_iterator dep, last_dep;
std::set<fs::path, path_less>::const_iterator fi, efi;
fi = m_copy_paths.begin();
efi = m_copy_paths.end();
// if in summary mode, just figure out the "bad" files and print those only:
std::set<fs::path, path_less> bad_paths;
if(m_bsl_summary_mode)
{
  bad_paths.insert(m_unknown_licenses.begin(), m_unknown_licenses.end());
  bad_paths.insert(m_unknown_authors.begin(), m_unknown_authors.end());
  bad_paths.insert(m_can_migrate_to_bsl.begin(), m_can_migrate_to_bsl.end());
  bad_paths.insert(m_cannot_migrate_to_bsl.begin(), m_cannot_migrate_to_bsl.end());
  typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>
  ::const_iterator conv_iterator;
  conv_iterator i = m_converted_to_bsl.begin(),
  ie = m_converted_to_bsl.end();
  while(i != ie)
  {
    bad_paths.insert(i->first);
    ++i;
  }
  fi = bad_paths.begin();
efi = bad_paths.end();
  os << "<P>For brevity, only files not under the BSL are shown</P>

  while(fi != efi)
{  
  os << split_path(m_boost_path, *fi);
  dep = m_dependencies.find(*fi);
  last_dep = m_dependencies.end();
  std::set<fs::path, path_less> seen_deps;
  if (dep != last_dep)
    while(true)
      {  
        os << " -> ";
        if(fs::exists(m_boost_path / dep->second))
          os << split_path(m_boost_path, dep->second);
        else if(fs::exists(dep->second))
          os << split_path(fs::path(), dep->second);
        else
          os << dep->second.string();
        if(seen_deps.find(dep->second) != seen_deps.end())
          {  
            os << " <I>(Circular dependency!)</I>";
            break; // circular dependency!!
          }
        seen_deps.insert(dep->second);
        last_dep = dep;
        dep = m_dependencies.find(dep->second);
        if((dep == m_dependencies.end()) || (0 == compare_paths(dep->second, last_dep->second)))
          break;
      }
  os << "\n";
  ++fi;
}
os << "</pre></BLOCKQUOTE>\n";

os << "</body></html>\n";

if(!os)
  {  
    std::string msg("Error writing to ");
    msg += m_boost_path.string();
    msg += ": ";
    std::runtime_error e(msg);
    boost::throw_exception(e);
  }

}  
Index: boost/mpl/print.hpp

===================================================================
--- boost/mpl/print.hpp	(revision 83411)
+++ boost/mpl/print.hpp	(working copy)
@@ -45,22 +45,21 @@


Open Source Used In Application Centric Infrastructure Service Engine (ACI-SE) 1.1

1.91 boost-atomic 1.53.0

1.91.1 Available under license:

Index: boost/mpl/print.hpp

===================================================================
--- boost/mpl/print.hpp	(revision 83411)
+++ boost/mpl/print.hpp	(working copy)
@@ -45,22 +45,21 @@
: mpl::identity<T>
#if defined(__MWERKS__)
 , aux::print_base
-#endif
+#endif

{ 
 #if defined(BOOST_MSVC)
 enum { n = sizeof(T) + -1 }; 
#elif defined(__MWERKS__)
 void f(int);
-#else
- enum {
- n =
- # if defined(__EDG_VERSION__) 
- aux::dependent_unsigned<T>::value > -1 
- # else 
- sizeof(T) > -1 
- # endif 
- };
- #endif
+#elif defined(__EDG_VERSION__) 
+ enum { n = aux::dependent_unsigned<T>::value > -1 }; 
+#elif defined(BOOST_GCC)
+ enum { n1 }; 
+ enum { n2 }; 
+ enum { n = n1 != n2 }; 
+#else 
+ enum { n = sizeof(T) > -1 }; 
+#endif 
 }

#if defined(BOOST_MSVC)


#if defined(BOOST_MSVC)
  enum { n = sizeof(T) + -1 };  
#elif defined=__MWERKS__
  void f(int);
-#else
-  enum {
-    n =
-    # if defined(__EDG_VERSION__)  
-      aux::dependent_unsigned<T>::value > -1
-    # else
-      sizeof(T) > -1
-    # endif
-  };
-#endif
+#elif defined(__EDG_VERSION__)  
+  enum { n = aux::dependent_unsigned<T>::value > -1 };  
+#elif defined(BOOST_GCC)  
+  enum { n1 };  
+  enum { n2 };  
+  enum { n = n1 != n2 };  
+#else
+  enum { n = sizeof(T) > -1 };  
+#endif

#endif

#ifdef(BOOST_MSVC)
  
  /*
   * Copyright (c) 2003 Dr John Maddock
   * Use, modification and distribution is subject to the
   * Boost Software License, Version 1.0. (See accompanying file
   * LICENSE_1_0.txt or copy at http://www.boost.org/LICENSE_1_0.txt)
   * *
   */

  #include "licence_info.hpp"
  #include "bcp_imp.hpp"
  #include "fileview.hpp"
  #include <fstream>
  #include <iomanip>
  #include <cstring>
  #include <stdexcept>
  #include <boost/lexical_cast.hpp>
  #include <boost/filesystem/operations.hpp>
  #include <boost/throw_exception.hpp>

  //
  // split_path is a small helper for outputting a path name,
// complete with a link to that path:
//
struct split_path
{
    const fs::path& root;
    const fs::path& file;
    split_path(const fs::path& r, const fs::path& f)
      : root(r), file(f){}
private:
    split_path& operator=(const split_path&);
};

std::ostream& operator << (std::ostream& os, const split_path& p)
{
    os << "<a href=" << (p.root / p.file).string() << ">
    " << p.file.string() << "</a>";
    return os;
}

std::string make_link_target(const std::string& s)
{
    // convert an arbitrary string into something suitable
    // for an <a> name:
    std::string result;
    for(unsigned i = 0; i < s.size(); ++i)
    {
        result.append(1, static_cast<std::string::value_type>(std::isalnum(s[i]) ? s[i] : '_'));
    }
    return result;
}

void bcp_implementation::output_license_info()
{
    std::pair<const license_info*, int> licenses = get_licenses();

    std::map<int, license_data>::const_iterator i, j;
    i = m_license_data.begin();
    j = m_license_data.end();

    std::ofstream os(m_dest_path.string().c_str());
    if(!os)
    {
        std::string msg("Error opening ");
        msg += m_dest_path.string();
        msg += " for output.");
        std::runtime_error e(msg);
        boost::throw_exception(e);
    }
os << "
  ""</DOCTYPE HTML PUBLIC "-/W3C//DTD HTML 4.0 Transitional//EN"">\n"
""<html>
""<head>
""<title>Boost Licence Dependency Information"
if(m_module_list.size() == 1)
{ os << " for " << *(m_module_list.begin()); }

os << "</title>
""</head>
""<body>
""<H1>Boost Licence Dependency Information"
if(m_module_list.size() == 1)
{ os << " for " << *(m_module_list.begin()); }

os << "</H1>
""</H2>
""<pre><a href="#input">Input Information</a>
if(!m_bsl_summary_mode)
os << "<a href="#summary">Licence Summary</a>
os << "<a href="#details">Licence Details</a>
while(i != j)
{
  // title:
os << "  
  ""<a href="/input"">Input Information</a>"
if(!m_bsl_summary_mode)
os << "  
  ""<a href="/summary"">Licence Summary</a>
os << "  ""<a href="/details"">Licence Details</a>

os << " <a href="/files"">Files with no recognised license</a>"
""<a href="/authors"">Files with no recognised copyright holder</a>"
if(!m_bsl_summary_mode)
{
  os << "Moving to the Boost Software License...
  ""<a href="/bsl-converted"">Files that can be automatically converted to the Boost Software License</a>"
""<a href="/to-bsl"">Files that can be manually converted to the Boost Software License</a>"
""<a href="/not-to-bsl"">Files that can NOT be moved to the Boost Software License</a>"
""<a href="/need-bsl-authors"">Authors we need to move to the Boost Software License</a>"
""<a href="/copyright"">Copyright Holder Information</a>"}
"</pre>";

//
// input Information:
//
{os << "<a name="input"></a><h2>Input Information</h2>
if(m_scan_mode)
    os << "<P>The following files were scanned for boost dependencies:<BR>
else
    os << "<P>The following Boost modules were checked:<BR>

std::list<std::string>::const_iterator si = m_module_list.begin();
std::list<std::string>::const_iterator sj = m_module_list.end();
while(si != sj)
{
    os << *si << "<BR>
    ++si;
}

os << "</p><p>The Boost path was: <code>" << m_boost_path.string() << "</code></p>";

//
// extract the boost version number from the boost directory tree,
// not from this app (which may have been built from a previous
// version):
//
fileview version_file(m_boost_path / "boost/version.hpp");
static const boost::regex version_regex("^[[:blank:]*#define[[:blank:]]+BOOST_VERSION[[:blank:]]+\(\d+\)\]"\nboost::cmatch what;
if(boost::regex_search(version_file.begin(), version_file.end(), what, version_regex))
{
    int version = boost::lexical_cast<int>(what.str(1));
    os << "<p>The Boost version is: " << version / 100000 << "." << version / 100 % 100
    << "<P>\n";
}

//
// output each license:
//
i = m_license_data.begin();
j = m_license_data.end();
if(!m_bsl_summary_mode)
{
    //
    // start with the summary:
    //
    os << "<a name="summary"></a><h2>Licence Summary</h2>
    while(i != j)
    {
"}
// title:
ostringstream os;  
"<H3>" << licenses.first[i->first].license_name << "</H3>\n";  
// license text:
ostringstream os;  
"<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";  
// Copyright holders:
ostringstream os;  
"<P>This license is used by " << i->second.authors.size()  
" authors and " << i->second.files.size()  
" files <a href="#" make_link_target(licenses.first[i->first].license_name) >> "\">(see details)</a>";  
ostringstream os;  
"</P><BLOCKQUOTE>\n";  
++i;  
}  
//  
// and now the details:  
//  
i = m_license_data.begin();  
j = m_license_data.end();  
int license_index = 0;  
ostringstream os;  
"<a name="details"></a><h2>Licence Details</h2>
";  
while(i != j)  
{  
// title:
ostringstream os;  
"<H3><A name="" make_link_target(licenses.first[i->first].license_name)  
"">" << licenses.first[i->first].license_name << "</H3>\n";  
// license text:
ostringstream os;  
"<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";  
if(!m_bsl_summary_mode  
|| (license_index >= 3))  
{  
// Copyright holders:
ostringstream os;  
"<P>This license is used by the following " << i->second.authors.size()  
" copyright holders:";  
std::set<std::string>::const_iterator x, y;  
x = i->second.authors.begin();  
y = i->second.authors.end();  
while(x != y)  
{  
ostringstream os;  
"<BR>\n";  
++x;  
}  
ostringstream os;  
"</P><BLOCKQUOTE>\n";  
// Files using this license:
ostringstream os;  
"<P>This license applies to the following " << i->second.files.size()  
" files:";  
std::set<fs::path, path_less>::const_iterator m, n;  
m = i->second.files.begin();  
n = i->second.files.end();
while(m != n)
{
    os << split_path(m_boost_path, *m) << "<br>
    ++m;
}

os << "</P></BLOCKQUOTE>\n";
}

else
{
    os << "<P>This license is used by " << i->second.authors.size() << " authors (list omitted for brevity).</P>\n";
    os << "<P>This license applies to " << i->second.files.size() << " files (list omitted for brevity).</P>\n";
}
++license_index;
++i;

// Output list of files not found to be under license control:
//===
// os << "<h2><a name="files"></a>Files With No Recognisable Licence</h2>\n"
    "<P>The following " << m_unknown_licenses.size() << " files had no recognisable license information:</P><BLOCKQUOTE><P>

    std::set<fs::path, path_less>::const_iterator i2, j2;
    i2 = m_unknown_licenses.begin();
    j2 = m_unknown_licenses.end();
    while(i2 != j2)
    {
        os << split_path(m_boost_path, *i2) << "<br>
        ++i2;
    }
    os << "</P></BLOCKQUOTE>";
//===
// Output list of files with no found copyright holder:
//===
// os << "<h2><a name="authors"></a>Files With No Recognisable Copyright Holder</h2>\n"
    "<P>The following " << m_unknown_authors.size() << " files had no recognisable copyright holder:</P>\n";
    i2 = m_unknown_authors.begin();
    j2 = m_unknown_authors.end();
    while(i2 != j2)
    {
        os << split_path(m_boost_path, *i2) << "<br>
        ++i2;
    }
    os << "</P></BLOCKQUOTE>";

if(!m_bsl_summary_mode)
{
    // Output list of files that have been moved over to the Boost
Files that can be automatically converted to the Boost Software License

// Output list of files that could be converted to the Boost Software License

Files that can NOT be converted to the Boost Software License because we need the permission of more authors:
// Output list of authors that we need permission for to move to the BSL.
//
// Authors we need for the BSL
//
"<P>Permission of the following authors is needed before we can convert to the Boost Software License. The list of authors that have given their permission is contained in <code>more/blanket-permission.txt</code>.<P>

std::copy(m_authors_for_bsl_migration.begin(), m_authors_for_bsl_migration.end(),
    std::ostream_iterator<std::string>(os, "<br>"));

// output a table of copyright information:
//
// Copyright Holder Information
//
std::map<std::string, std::set<fs::path, path_less> >::const_iterator ad, ead;
ado = m_author_data.begin();
edo = m_author_data.end();
while(ad != ead)
{
    os << "<tr><td>" << ad->first << " <br>";
    std::set<fs::path, path_less>::const_iterator fi, efi;
    fi = ad->second.begin();
    efi = ad->second.end();
    while(fi != efi)
    {
        os << split_path(m_boost_path, *fi) << " ";
        ++fi;
    }
    os << "</tr><tr>
    ++ad;
}

// output file dependency information:
//
// File Dependency Information
//
std::map<fs::path, fs::path, path_less>::const_iterator dep, last_dep;
std::set<fs::path, path_less>::const_iterator fi, efi;
fi = ad->second.begin();
efi = ad->second.end();
while(fi != efi)
{
    os << split_path(m_boost_path, *fi) << " ",
    ++fi;
}

// if in summary mode, just figure out the "bad" files and print those only:
std::set<fs::path, path_less> bad_paths;
if(m_bsl_summary_mode)
{
    bad_paths.insert(m_unknown_licenses.begin(), m_unknown_licenses.end());
    bad_paths.insert(m_unknown_authors.begin(), m_unknown_authors.end());
    bad_paths.insert(m_can_migrate_to_bsl.begin(), m_can_migrate_to_bsl.end());
    bad_paths.insert(m_cannot_migrate_to_bsl.begin(), m_cannot_migrate_to_bsl.end());
    typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>
::const_iterator conv_iterator;
    conv_iterator i = m_converted_to_bsl.begin(),
        ie = m_converted_to_bsl.end();
    while(i != ie)
    {
        bad_paths.insert(i->first);
        ++i;
    }
    fi = bad_paths.begin();
    efi = bad_paths.end();
    os << "<P>For brevity, only files not under the BSL are shown</P>
    
    while(fi != efi)
    {
        os << split_path(m_boost_path, *fi);
        dep = m_dependencies.find(*fi);
        last_dep = m_dependencies.end();
        std::set<fs::path, path_less> seen_deps;
        if (dep != last_dep)
            while(true)
            {
                os << " -> ";
                if(fs::exists(m_boost_path / dep->second))
                    os << split_path(m_boost_path, dep->second);
                else if(fs::exists(dep->second))
                    os << split_path(fs::path(), dep->second);
                else
                    os << dep->second.string();
                if(seen_deps.find(dep->second) != seen_deps.end())
                    
                    os << " <I>(Circular dependency!)</I>";
                    break; // circular dependency!!!
                }
                seen_deps.insert(dep->second);
                last_dep = dep;
                dep = m_dependencies.find(dep->second);
                if((dep == m_dependencies.end()) || (0 == compare_paths(dep->second, last_dep->second)))
                    break;
            }
        os << "\n";
Maybe this should pass?
This package was debianized by Vladimir Prus <ghost@cs.msu.su> on

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This is Release 2.4 of Jam/MR, a make-like program.

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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.
The SPARC specific code was originally contributed by Mark Weiser.
The Encore Multimax modifications were supplied by
Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely
due to Vernon Lee, on machines made available to Rice by IBM.
Much of the HP specific code and a number of good suggestions for improving the
generic code are due to Walter Underwood.
Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.
Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk)
subsequently provided updates and information on variation between ULTRIX
systems. Parag Patel (parag@netcom.com) supplied the A/UX code.
Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and
Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.
Thomas Funke (thf@zelator.in-berlin.de(?)) and
Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and
Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks(agic@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn’t
made it into the released version of the collector, yet.)

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Lightweight Service Engine (ACE) 1.1

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#include <boost/intrusive/detail/config_begin.hpp>
#include <cstddef>

namespace boost {
  namespace intrusive {
    namespace detail {

      typedef char one;
      struct two {one _[2];};

      template< bool C_ >
      struct bool_ {
        static const bool value = C_;
      };

      typedef bool_<true> true_;
      typedef bool_<false> false_;

      typedef true_ true_type;
      typedef false_ false_type;

      typedef char yes_type;
      struct no_type {
        char padding[8];
      };

      template <bool B, class T = void>
      struct enable_if_c {
        typedef T type;
      };

      template <class T>
      struct enable_if_c<false, T> {};

      template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {};

template<class F, class Param>
struct apply
{
    typedef typename F::template apply<Param>::type type;
};

template <class T, class U>
class is_convertible
{
    typedef char true_t;
    class false_t { char dummy[2]; }; 
    static true_t dispatch(U);
    static false_t dispatch(...);
    static const T &trigger();
    public:
    static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);
};

template<
    bool C
, typename T1
, typename T2
>
struct if_c
{
    typedef T1 type;
};

template<
    typename T1
, typename T2
>
struct if_c<false,T1,T2>
{
    typedef T2 type;
};

template<
    typename C
, typename T1
, typename T2
>
struct if_
{
    typedef typename if_c<0 != C::value, T1, T2>::type type;
};
template<
  bool C
 , typename F1
 , typename F2
>
struct eval_if_c
 : if_c<C,F1,F2>::type
{
};

template<
  typename C
 , typename T1
 , typename T2
>
struct eval_if
 : if_<C,T1,T2>::type
{
};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
{
  typedef T type;
};

#if defined(BOOST_MSVC) || defined(__BORLANDC_)
#define BOOST_INTRUSIVE_TT_DECL __cdecl
#else
#define BOOST_INTRUSIVE_TT_DECL
#endif
#if defined(_MSC_EXTENSIONS) && !defined(__BORLAND__) && !defined(_WIN64) && !defined(UNDER_CE)
#define BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS
#endif

template <typename T>
struct is_unary_or_binary_function_impl
{
  static const bool value = false;
};

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
#ifndef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS
#endif

template <typename R>
struct is_unary_or_binary_function_impl<R (*)(>)
{
  static const bool value = true;
};
template <typename R>
struct is_unary_or_binary_function_impl<R (*)(...)>
{  static const bool value = true;  };

#endif // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R>
struct is_unary_or_binary_function_impl<R (__stdcall*)()>
{  static const bool value = true;  };

#ifndef _MANAGED

template <typename R>
struct is_unary_or_binary_function_impl<R (__fastcall*)()>  
{  static const bool value = true;  };

#endif

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
#ifndef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (*)(T0)>  
{  static const bool value = true;  };

#endif // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
#ifndef _MANAGED

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (*)(T0...)>
{  static const bool value = true;  };

#endif

else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (__stdcall*)(T0)>  
{  static const bool value = true;  };

#endif // _MANAGED
template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (__fastcall*)(T0)>
{  static const bool value = true;  }
#endif

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0)>
{  static const bool value = true;  }

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0...)>
{  static const bool value = true;  }
#endif

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
#ifndef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (*)(T0, T1)>
{  static const bool value = true;  }

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (*)(T0, T1...)>
{  static const bool value = true;  }
#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__stdcall*)(T0, T1)>
{  static const bool value = true;  }
#ifndef _MANAGED

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__fastcall*)(T0, T1)>
{  static const bool value = true;  }
#endif

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0, T1)>
{  static const bool value = true;  }
#endif // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__fastcall*)(T0, T1)>
{  static const bool value = true;  }

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0, T1...)>
{  static const bool value = true;  };
#endif

template <typename T>
struct is_unary_or_binary_function_impl<T&>
{  static const bool value = false;  };

template<typename T>
struct is_unary_or_binary_function
{  static const bool value = is_unary_or_binary_function_impl<T>::value;  };

//boost::alignment_of yields to 10K lines of preprocessed code, so we
//need an alternative

template <typename T> struct alignment_of;

template <typename T>
struct alignment_of_hack
{
    char c;
    T t;
    alignment_of_hack();
};

template <unsigned A, unsigned S>
struct alignment_logic
{
    static const std::size_t value = A < S ? A : S;
};

template< typename T >
struct alignment_of
{
    static const std::size_t value = alignment_logic
                          < sizeof(alignment_of_hack<T>) - sizeof(T)
                          , sizeof(T)
                          >::value;
};

template <typename T, typename U>
struct is_same
{
    typedef char yes_type;
    struct no_type
    {
        char padding[8];
    };
template <typename V>
static yes_type is_same_tester(V*, V*);
static no_type is_same_tester(...);

static T *t;
static U *u;

static const bool value = sizeof(yes_type) == sizeof(is_same_tester(t,u));
};

template<typename T>
struct add_const
{
    typedef const T type;
};

template<typename T>
struct remove_const
{
    typedef T type;
};

template<typename T>
struct remove_const<const T>
{
    typedef T type;
};

template<typename T>
struct remove_cv
{
    typedef T type;
};

template<typename T>
struct remove_cv<const T>
{
    typedef T type;
};

template<typename T>
struct remove_cv<const volatile T>
{
    typedef T type;
};

template<typename T>
struct remove_cv<volatile T>
{
    typedef T type;
};

template<class T>
struct remove_reference
{
    typedef T type;
};

template<class T>
struct remove_reference<T&>
{
    typedef T type;
};
template<
class Class>
class is_empty_class
{
  template <typename T>
  struct empty_helper_t1 : public T
  {
    empty_helper_t1();
    int i[256];
  };

  struct empty_helper_t2
  { int i[256]; };

  public:
  static const bool value = sizeof(empty_helper_t1<
Class>) == sizeof(empty_helper_t2);
};

template<std::size_t S>
struct ls_zeros
{
  static const std::size_t value = (S & std::size_t(1)) ? 0 : (1 + ls_zeros<(S>>1u)>::value);
};

template<>
struct ls_zeros<0>
{
  static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
  static const std::size_t value = 0;
};

} //namespace detail
} //namespace intrusive
} //namespace boost
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// http://www.boost.org/LICENSE_1_0.txt)

#pragma once

#include <cstddef>

namespace boost {
namespace container {
namespace container_detail {

template <class T, T val>
struct integral_constant{
  static const T value = val;
  typedef integral_constant<T,val> type;
};

template< bool C_ >
struct bool_ : integral_constant<bool, C_>
{
  static const bool value = C_;  
  operator bool() const { return bool_::value; }
};

typedef bool_<true>    true_;
typedef bool_<false>   false_;

typedef true_  true_type;
typedef false_ false_type;

typedef char yes_type;
struct no_type{
  char padding[8];
};

template <bool B, class T = void>
struct enable_if_c {
    typedef T type;
};

template <class T>
struct enable_if_c<false, T> {};

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {};

template <class Cond, class T = void>
struct disable_if : public enable_if_c<!Cond::value, T> {};

template <bool B, class T = void>
struct disable_if_c : public enable_if_c<!B, T> {};

template <class T, class U>
class is_convertible
{
    typedef char true_t;
    class false_t { char dummy[2]; };  
    static true_t dispatch(U);
    static false_t dispatch(...);
    static T trigger();
    public:
        enum { value = sizeof(dispatch(trigger())) == sizeof(true_t) };
};

template<
    bool C,
    , typename T1
    , typename T2
>
struct if_c
{
    typedef T1 type;
};

template<
    typename T1
    , typename T2
>
struct if_c<false,T1,T2>
{
    typedef T2 type;
};

template<
typedef typename T1
  , typename T2
  , typename T3
>
struct if_
{
  typedef typename if_c<0 == T1::value, T2, T3>::type type;
};

template <class Pair>
struct select1st
//   : public std::unary_function<Pair, typename Pair::first_type>
{
  template<class OtherPair>
  const typename Pair::first_type& operator()(const OtherPair& x) const
  {  return x.first;  }

  const typename Pair::first_type& operator()(const typename Pair::first_type& x) const
  {  return x;  }
};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
//   : public std::unary_function<T,T>
{
  typedef T type;
  const T& operator()(const T& x) const
  { return x; }
};

template<std::size_t S>
struct ls_zeros
{
  static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<(S >> 1u)>::value);
};

template<>
struct ls_zeros<0>
{
  static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
  static const std::size_t value = 0;
template <typename T> struct unvoid { typedef T type; }
template <> struct unvoid<void> { struct type { }; }
template <> struct unvoid<const void> { struct type { }; }
}  //namespace container_detail {
}  //namespace container {
}  //namespace boost {

#include <cstddef>

namespace boost {
namespace interprocess {
namespace ipcdetail {

template <class T, T val>
struct integral_constant
{
    static const T value = val;
    typedef integral_constant<T,val> type;
};

template< bool C_ >
struct bool_ : integral_constant<bool, C_>
{
    static const bool value = C_;
};

}} // namespace container_detail {
}  //namespace container {
}  //namespace boost {

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//
//
//////////////////////////////////////////////////////////////////////////////

#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
#define BOOST_INTERPROCESS_DETAIL_MPL_HPP

#if (defined _MSC_VER) && (_MSC_VER >= 1200)
#  pragma once
#endif

#include <cstddef>

namespace boost {
namespace interprocess {
namespace ipcdetail {

template <class T, T val>
struct integral_constant
{
    static const T value = val;
    typedef integral_constant<T,val> type;
};

template< bool C_ >
struct bool_ : integral_constant<bool, C_>
{
    static const bool value = C_;
};

}} // namespace container_detail {
}  //namespace container {
}  //namespace boost {

}
typedef bool_<true>        true_;  
typedef bool_<false>       false_;  

typedef true_  true_type;  
typedef false_ false_type;  

typedef char yes_type;  
struct no_type  
{  
    char padding[8];  
};  

template <bool B, class T = void>  
struct enable_if_c {  
    typedef T type;  
};  

template <class T>  
struct enable_if_c<false, T> {};  

template <class Cond, class T = void>  
struct enable_if : public enable_if_c<Cond::value, T> {};  

template <class Cond, class T = void>  
struct disable_if : public enable_if_c<!Cond::value, T> {};  

template <class T, class U>  
class is_convertible  
{  
    typedef char true_t;  
    class false_t { char dummy[2]; };  
    static true_t dispatch(U);  
    static false_t dispatch(...);  
    static T trigger();  
    public:  
        static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);  
};  

template<  
    bool C  
, typename T1  
, typename T2  
>  
struct if_c  
{  
    typedef T1 type;  
};
template<
    typename T1,
    typename T2
>
struct if_c<false,T1,T2>
{
    typedef T2 type;
};

template<
    typename T1,
    typename T2,
    typename T3
>
struct if_<
{
    typedef typename if_c<0 != T1::value, T2, T3>::type type;
};

template <class Pair>
struct select1st
//   : public std::unary_function<Pair, typename Pair::first_type>
{
    template<class OtherPair>
    const typename Pair::first_type& operator()(const OtherPair& x) const
    {  return x.first;   }

    const typename Pair::first_type& operator()(const typename Pair::first_type& x) const
    {  return x;   }
};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
//   : public std::unary_function<T,T>
{
    typedef T type;
    const T& operator()(const T& x) const
    { return x; }
};

template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<(S >> 1u)>::value);
};
template<>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
    static const std::size_t value = 0;
};

} //namespace ipcdetail {
} //namespace interprocess {
} //namespace boost {

#endif   //#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP

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All the value based traits in this library conform to MPL’s requirements for an Integral Constant type that includes a number of rather intrusive workarounds for broken compilers.

Purely as an implementation detail, this means that \code{true_type} inherits from \code{boost\<span class="identifier">\special<\span class="identifier">mpl</span>\<span class="identifier">true_</span>}, \code{false_type} inherits from \code{boost\<span class="identifier">\special<\span class="identifier">mpl</span>\<span class="identifier">false_</span}}, and \code{integral_constant<T,v>} inherits from \code{boost\<span class="identifier">\special<\span class="identifier">mpl</span>\<span class="identifier">integral_c</span>\<span class="identifier">T</span>\<span class="identifier">v</span>)} (provided \code{T} is not \code{bool}).
All the value based traits in this library conform to MPL's requirements for an [Integral Constant type]: that includes a number of rather intrusive workarounds for broken compilers.

Purely as an implementation detail, this means that `__true_type` inherits from [`boost::mpl::true_`], `__false_type` inherits from [`boost::mpl::false_`], and `__integral_constant<T, v>` inherits from [`boost::mpl::integral_c<T, v>`] (provided `T` is not `bool`).
The following is the overall license for the boost date_time library. This notice is found in all source files related to the library.

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Boost.Geometry (aka GGL, Generic Geometry Library)

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1.92 boost-date-time 1.53.0-27.el7
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Maybe this should pass?

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 * Boost Software License, Version 1.0. (See accompanying file
 * LICENSE_1_0.txt or copy at http://www.boost.org/LICENSE_1_0.txt)
 * */

#include "licence_info.hpp"
#include "bcp_imp.hpp"
#include "fileview.hpp"
#include <fstream>
#include <iomanip>
#include <cstring>
#include <stdexcept>
#include <boost/lexical_cast.hpp>
#include <boost/filesystem/operations.hpp>
#include <boost/throw_exception.hpp>

//
// split_path is a small helper for outputting a path name,
// complete with a link to that path:
//
// struct split_path
// {
//  const fs::path& root;
//  const fs::path& file;
//  split_path(const fs::path & r, const fs::path & f)
//    : root(r), file(f) {} 
private:
split_path& operator=(const split_path&);
);

std::ostream& operator << (std::ostream& os, const split_path& p)
{
    os << "<a href="/" << (p.root / p.file).string() << "]" << p.file.string() << "]";<"/a>>";
    return os;
}

std::string make_link_target(const std::string& s)
{
    // convert an arbitrary string into something suitable
    // for an <a> name:
    std::string result;
    for(unsigned i = 0; i < s.size(); ++i)
    {
        result.append(1, static_cast<std::string::value_type>(std::isalnum(s[i]) ? s[i] : '_'));
    }
    return result;
}

void bcp_implementation::output_license_info()
{
    std::pair<const license_info*, int> licenses = get_licenses();

    std::map<int, license_data>::const_iterator i, j;
    i = m_license_data.begin();
    j = m_license_data.end();

    std::ofstream os(m_dest_path.string().c_str());
    if(!os)
    {
        std::string msg("Error opening ");
        msg += m_dest_path.string();
        msg += " for output.");
        std::runtime_error e(msg);
        boost::throw_exception(e);
    }
    os <<
"<!DOCTYPE HTML PUBLIC "/W3C//DTD HTML 4.0 Transitional//EN"">\n"
"<html>
"
"<head>
"
"<title>Boost Licence Dependency Information";
    if(m_module_list.size() == 1)
    {
        os << " for " << *(m_module_list.begin());
    }
"<H1>Boost Licence Dependency Information</H1>

if(m_module_list.size() == 1)
{
    os << " for " << *(m_module_list.begin());
}

os << "</H1>
" "</H2>Contents</h2>
"<pre><a href="#input">Input Information</a>
if(!m_bsl_summary_mode)
    os << " <a href="#summary">Licence Summary</a>
; os << " <a href="#details">Licence Details</a>
while(i != j)
{
    // title:
    os << " <a href="#files">Files with no recognised license</a> 
" " <a href="#authors">Files with no recognised copyright holder</a> 
; if(!m_bsl_summary_mode)
    {
        os << "Moving to the Boost Software License...
" " <a href="#bsl-converted">Files that can be automatically converted to the Boost Software License</a>
" " <a href="#to-bsl">Files that can be manually converted to the Boost Software License</a>
" " <a href="#not-to-bsl">Files that can NOT be moved to the Boost Software License</a>
" " <a href="#need-bsl-authors">Authors we need to move to the Boost Software License</a>
" " <a href="#copyright">Copyright Holder Information</a> 
; }
    os << " <a href="#depend">File Dependency Information</a>
" </pre>;

// input Information:
//
os << " <a name="input"></a><h2>Input Information</h2>
if(m_scan_mode)
    os << "The following files were scanned for boost dependencies:<BR>
else
The following Boost modules were checked:

```cpp
os << "<P>The following Boost modules were checked:<BR>
std::list<std::string>::const_iterator si = m_module_list.begin();
std::list<std::string>::const_iterator sj = m_module_list.end();
while(si != sj)
{
    os << *si << "<BR>
    ++si;
}
```

The Boost path was: ```<code>" << m_boost_path.string() << "</code></P>```

// extract the boost version number from the boost directory tree,
// not from this app (which may have been built from a previous
// version):

```cpp
fileview version_file(m_boost_path / "boost/version.hpp");
static const boost::regex version_regex("^[[:blank:]]*#defines[:blank:]+BOOST_VERSION[[:blank:]+(\d+)]");
boost::cmatch what;
if(boost::regex_search(version_file.begin(), version_file.end(), what, version_regex))
{
    int version = boost::lexical_cast<int>(what.str(1));
    os << "<p>The Boost version is: " << version / 100000 << "." << version / 100 % 100 << "." << version % 100 << "</p>\n";
}
```

// output each license:

```cpp
i = m_license_data.begin();
j = m_license_data.end();
if(!m_bsl_summary_mode)
{
    // start with the summary:
    //
    os << "<a name=\"summary\">\n";
    while(i != j)
    {
        // title:
    os << 
            "<H3>" << licenses.first[i->first].license_name << " </H3>\n";
        // license text:
    os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
        // Copyright holders:
    os << "<P>";This license is used by " << i->second.authors.size() 
        << " authors and " << i->second.files.size() 
        << " files <a href="#" make_link_target(licenses.first[i->first].license_name) "\n"(see details)</a>";
```
os << "</P></BLOCKQUOTE><\n";
++i;
}
}

// and now the details:
//
i = m_license_data.begin();
j = m_license_data.end();
int license_index = 0;

os << "<a name="details"></a><h2>Licence Details</h2>
{
    // title:
    os << "<H3><A name="" << make_link_target(licenses.first[i->first].license_name) << ">" << licenses.first[i->first].license_name << "</H3><\n";
    // license text:
    os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
    if(!m_bsl_summary_mode || (license_index >= 3))
    {
        // Copyright holders:
        os << "<P>This license is used by the following " << i->second.authors.size() << " copyright holders:</P><BLOCKQUOTE><P>
        std::set<std::string>::const_iterator x, y;
        x = i->second.authors.begin();
        y = i->second.authors.end();
        while(x != y)
        {
            os << *x << "<BR><\n";
            ++x;
        }
        os << "</P></BLOCKQUOTE><\n";
        // Files using this license:
        os << "<P>This license applies to the following " << i->second.files.size() << " files:</P><BLOCKQUOTE><P>
        std::set<fs::path, path_less>::const_iterator m, n;
        m = i->second.files.begin();
        n = i->second.files.end();
        while(m != n)
        {
            os << split_path(m_boost_path, *m) << "<BR><\n";
            ++m;
        }
        os << "</P></BLOCKQUOTE><\n";
    }
    else
    {
    
    
}
os << "<p>This license is used by " << i->second.authors.size() << " authors (list omitted for brevity).
";
  os << "<p>This license applies to " << i->second.files.size() << " files (list omitted for brevity).
";
  ++license_index;
  ++i;
}
//
// Output list of files not found to be under license control:
//
  os << "<h2><a name="files"></a>Files With No Recognisable Licence</h2><p>
";  std::set<fs::path, path_less>::const_iterator i2, j2;
  i2 = m_unknown_licenses.begin();
  j2 = m_unknown_licenses.end();
  while (i2 != j2) {
    os << split_path(m_boost_path, *i2) << "<br>
";
    ++i2;
  }
  os << "</p></BLOCKQUOTE>
";
//
// Output list of files with no found copyright holder:
//
  os << "<h2><a name="authors"></a>Files With No Recognisable Copyright Holder</h2><p>
";
  i2 = m_unknown_authors.begin();
  j2 = m_unknown_authors.end();
  while (i2 != j2) {
    os << split_path(m_boost_path, *i2) << "<br>
";
    ++i2;
  }
  os << "</p></BLOCKQUOTE>
";
if(!m_bsl_summary_mode) {
  //
  // Output list of files that have been moved over to the Boost
  // Software License, along with enough information for human
  // verification.
  //
  os << "<h2><a name="bsl-converted"></a>Files that can be automatically converted to the Boost Software License</h2><p>
";
  << "The following " << m_converted_to_bsl.size() << " files can be automatically converted to the Boost Software License, but require manual verification before they can be committed to CVS.
";  if (!m_converted_to_bsl.empty()) {

typedef std::map<fs::path, std::pair<std::string, std::string>, path_less> ::const_iterator conv_iterator;

conv_iterator i = m_converted_to_bsl.begin(),
    ie = m_converted_to_bsl.end();

int file_num = 1;
while (i != ie)
{
    os << "<P>[" << file_num << "] File: <tt>" << split_path(m_boost_path, i->first)
        << "</tt><br>" << i->second.first << "</pre>" << i->second.second << "</pre>";
    ++i;
    ++file_num;
}

// Output list of files that could be moved over to the Boost Software License

//
// Output list of files that could be moved over to the Boost Software License
//
os << "<h2><a name="to-bsl"></a>Files that could be converted to the Boost Software License</h2>
"<P>The following " << m_can_migrate_to_bsl.size() << ", files could be manually converted to the Boost Software License, but have not yet been:
<P><BLOCKQUOTE><P>
    i2 = m_can_migrate_to_bsl.begin();
    j2 = m_can_migrate_to_bsl.end();
    while (i2 != j2)
    {
        os << split_path(m_boost_path, *i2) << "<br>";
        ++i2;
    }
    os << "</p></BLOCKQUOTE>";
    //
    // Output list of files that can not be moved over to the Boost Software License
    //
    os << "<h2><a name="not-to-bsl"></a>Files that can NOT be converted to the Boost Software License</h2>
"<P>The following " << m_cannot_migrate_to_bsl.size() << ", files cannot be converted to the Boost Software License because we need the permission of more authors:
<P><BLOCKQUOTE><P>
    i2 = m_cannot_migrate_to_bsl.begin();
    j2 = m_cannot_migrate_to_bsl.end();
    while (i2 != j2)
    {
        os << split_path(m_boost_path, *i2) << "<br>";
        ++i2;
    }
    os << "</p></BLOCKQUOTE>";
    //
    // Output list of authors that we need permission for to move to the BSL
    //
    os << "<h2><a name="need-bsl-authors"></a>Authors we need for the BSL</h2>
"
Permission of the following authors is needed before we can convert to the Boost Software License. The list of authors that have given their permission is contained in more/blanket-permission.txt.

```cpp
std::copy(m_authors_for_bsl_migration.begin(), m_authors_for_bsl_migration.end(),
          std::ostream_iterator<std::string>(os, "<br>
"));

os << "</p></BLOCKQUOTE>
";

// output a table of copyright information:

os << "<H2><a name="copyright"></a>Copyright Holder Information</H2><table border="1">

std::map<std::string, std::set<fs::path, path_less> >::const_iterator ad, ead;
ad = m_author_data.begin();
ead = m_author_data.end();
while(ad != ead)
{
    os << "<tr><td" << ad->first << "</td><td";
    std::set<fs::path, path_less>::const_iterator fi, efi;
    fi = ad->second.begin();
    efi = ad->second.end();
    while(fi != efi)
    {
        os << split_path(m_boost_path, *fi) << " ";
        ++fi;
    }
    os << "</td></tr>
";
    ++ad;
}

os << "</table>"
```

// output file dependency information:

```cpp
os << "<H2><a name="depend"></a>File Dependency Information</H2><BLOCKQUOTE><pre>

std::map<fs::path, fs::path, path_less>::const_iterator dep, last_dep;
std::set<fs::path, path_less>::const_iterator fi, efi;
fi = m_copy_paths.begin();
efi = m_copy_paths.end();
// if in summary mode, just figure out the "bad" files and print those only:
std::set<fs::path, path_less> bad_paths;
if(m_bsl_summary_mode)
{
    bad_paths.insert(m_unknown_licenses.begin(), m_unknown_licenses.end());
    bad_paths.insert(m_unknown_authors.begin(), m_unknown_authors.end());
    bad_paths.insert(m_can_migrate_to_bsl.begin(), m_can_migrate_to_bsl.end());
    bad_paths.insert(m_cannot_migrate_to_bsl.begin(), m_cannot_migrate_to_bsl.end());
typedef std::map<fs::path, std::pair<std::string, std::string>, path_less> ::const_iterator conv_iterator;
```
conv_iterator i = mconverted_to_bsl.begin();
    ie = mconverted_to_bsl.end();
while(i != ie)
{
    bad_paths.insert(i->first);
    ++i;
}
fi = bad_paths.begin();
efi = bad_paths.end();
os << "<P>For brevity, only files not under the BSL are shown</P>\n";
} while(fi != efi)
{
    os << split_path(m_boost_path, *fi);
    dep = m_dependencies.find(*fi);
    last_dep = m_dependencies.end();
    std::set<fs::path, path_less> seen_deps;
    if (dep != last_dep) 
        while(true)
        {
            os << " - > ";
            if(fs::exists(m_boost_path / dep->second))
                os << split_path(m_boost_path, dep->second);
            else if(fs::exists(dep->second))
                os << split_path(fs::path(), dep->second);
            else
                os << dep->second.string();
            if(seen_deps.find(dep->second) != seen_deps.end())
            {
                os << " <I>(Circular dependency!)</I>";
                break; // circular dependency!!!
            }
            seen_deps.insert(dep->second);
            last_dep = dep;
            dep = m_dependencies.find(dep->second);
            if((dep == m_dependencies.end()) || (0 == compare_paths(dep->second, last_dep->second)))
                break;
        }
    os << "\n";
    ++fi;
} os << "</pre></BLOCKQUOTE>\n";

os << "</body></html>";
if(!os)
{
    std::string msg("Error writing to ");
}
This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

**HISTORY** -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson (jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and
Dave Detlefs (detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks (agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn’t made it into the released version of the collector, yet.)

===========================================================================
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Copyright (c) 2009-2011 Mateusz Loskot, London, UK.

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This package was debianized by Vladimir Prus <ghost@cs.msu.su> on Wed, 17 July 2002, 19:27:00 +0400.

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//
//

#endif BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
#define BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
#if (defined _MSC_VER) && (_MSC_VER >= 1200)
#pragma once
#endif

#include <cstddef>

namespace boost {
namespace container {
namespace container_detail {

template <class T, T val>
struct integral_constant
{
    static const T value = val;
    typedef integral_constant<T,val> type;
};

template< bool C_ >
struct bool_ : integral_constant<bool, C_>
{
    static const bool value = C_;
    operator bool() const { return bool_::value; }
};

typedef bool_<true> true_;
typedef bool_<false> false_;

typedef true_ true_type;
typedef false_ false_type;

typedef char yes_type;
struct no_type
{
    char padding[8];
};

template <bool B, class T = void>
struct enable_if_c {
    typedef T type;
};
template <class T>
struct enable_if_c<false, T> {};

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {};

template <class Cond, class T = void>

struct disable_if : public enable_if<!Cond::value, T> { };  

template <bool B, class T = void>  
struct disable_if_c : public enable_if<!B, T> { };  

template <class T, class U>  
class is_convertible  
{  
typedef char true_t;  
class false_t { char dummy[2]; };  
static true_t dispatch(U);  
static false_t dispatch(...);  
static T trigger();  
public:  
enum { value = sizeof(dispatch(trigger())) == sizeof(true_t) };  
};  

template<  
    bool C  
, typename T1  
, typename T2  
>  
struct if_c  
{  
typedef T1 type;  
};  

template<  
    typename T1  
, typename T2  
>  
struct if_c<false,T1,T2>  
{  
typedef T2 type;  
};  

template<  
    typename T1  
, typename T2  
, typename T3  
>  
struct if_  
{  
typedef typename if_c<0 != T1::value, T2, T3>::type type;  
};  

template <class Pair>
struct select1st
// : public std::unary_function<Pair, typename Pair::first_type>
{
    template<class OtherPair>
    const typename Pair::first_type& operator()(const OtherPair& x) const
    { return x.first; }

    const typename Pair::first_type& operator()(const typename Pair::first_type& x) const
    { return x; }
};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
// : public std::unary_function<T,T>
{
    typedef T type;
    const T& operator()(const T& x) const
    { return x; }
};

template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<(S >> 1u)>::value);
};

template<> struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template<> struct ls_zeros<1>
{
    static const std::size_t value = 0;
};

template< typename T> struct unvoid { typedef T type; }

#define BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
//
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//
//

#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
#define BOOST_INTERPROCESS_DETAIL_MPL_HPP

#if (defined _MSC_VER) && (_MSC_VER >= 1200)
    #pragma once
#endif

#include <cstdlib>

namespace boost {
    namespace interprocess {
        namespace ipcdetail {

            template <class T, T val>
            struct integral_constant
            {
                static const T value = val;
                typedef integral_constant<T,val> type;
            };

            template< bool C_ >
            struct bool_ : integral_constant<bool, C_>
            {
                static const bool value = C_; 
            };

            typedef bool_<true>        true_;
            typedef bool_<false>       false_;

            typedef true_  true_type;
            typedef false_ false_type;

            typedef char yes_type;
            struct no_type
            {
                char padding[8];
            };

        } // namespace ipcdetail
    } // namespace interprocess
} // namespace boost

#endif // BOOST_INTERPROCESS_DETAIL_MPL_HPP
template <bool B, class T = void>
struct enable_if_c {
    typedef T type;
};

template <class T>
struct enable_if_c<false, T> {};

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {};

template <class Cond, class T = void>
struct disable_if : public enable_if_c<!Cond::value, T> {};

template <class T, class U>
class is_convertible {
    typedef char true_t;
    class false_t { char dummy[2]; }; 
    static true_t dispatch(U);
    static false_t dispatch(...);
    static T trigger();
    public:
    static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);
};

template<
    bool C
    , typename T1
    , typename T2
>
struct if_c {
    typedef T1 type;
};

template<
    typename T1
    , typename T2
>
struct if_c<false,T1,T2> {
    typedef T2 type;
};

template<
typename T1,
    , typename T2,
    , typename T3
>
struct if_
{
    typedef typename if_c<0 != T1::value, T2, T3>::type type;
};

template <class Pair>
struct select1st
//   : public std::unary_function<Pair, typename Pair::first_type>
{
    template<class OtherPair>
    const typename Pair::first_type& operator()(const OtherPair& x) const
    {  return x.first;  }

    const typename Pair::first_type& operator()(const typename Pair::first_type& x) const
    {  return x;  }
};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
//   : public std::unary_function<T,T>
{
    typedef T type;
    const T& operator()(const T& x) const
    { return x; }
};

template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<(S >> 1u)>::value);
};

template<>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
    static const std::size_t value = 0;
namespace boost {
namespace intrusive {
namespace detail {

typedef char one;
struct two {one _[2];};

template< bool C_ >
struct bool_
{
    static const bool value = C_; 
};

typedef bool_<true> true_;
typedef bool_<false> false_;

typedef true_  true_type;
typedef false_ false_type;

typedef char yes_type;
struct no_type
{
    char padding[8];
};
template <bool B, class T = void>
struct enable_if_c {
    typedef T type;
};

template <class T>
struct enable_if_c<false, T> {};

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {};

template<class F, class Param>
struct apply {
    typedef typename F::template apply<Param>::type type;
};

template <class T, class U>
class is_convertible {
    typedef char true_t;
    class false_t { char dummy[2]; }; 
    static true_t dispatch(U);
    static false_t dispatch(...);
    static const T &trigger();
    public:
    static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);
};

template<
    bool C , typename T1 , typename T2
>
struct if_c {
    typedef T1 type;
};

template<
    typename T1 , typename T2
>
struct if_c<false,T1,T2> {
    typedef T2 type;
template<
    typename C,
    typename T1,
    typename T2
>
struct if_
{
    typedef typename if_c<0 != C::value, T1, T2>::type type;
};

template<
    bool C,
    typename F1,
    typename F2
>
struct eval_if_c
    : if_c<C,F1,F2>::type
{};

template<
    typename C,
    typename T1,
    typename T2
>
struct eval_if
    : if_<C,T1,T2>::type
{};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
{
    typedef T type;
};

#ifdef BOOST_MSVC || defined(__BORLANDC_)
#define BOOST_INTRUSIVE_TT_DECL __cdecl
#else
#define BOOST_INTRUSIVE_TT_DECL
#endif

#ifdef _MSC_EXTENSIONS && !_WIN64 && !defined(UNDER_CE)
#define BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS
#endif
template <typename T>
struct is_unary_or_binary_function_impl
{  static const bool value = false;  };

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
#ifndef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R>
struct is_unary_or_binary_function_impl<R (*)(*)>
{  static const bool value = true;  };

template <typename R>
struct is_unary_or_binary_function_impl<R (*)(...)>
{  static const bool value = true;  };

#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R>
struct is_unary_or_binary_function_impl<R (__stdcall*)(*)>
{  static const bool value = true;  };

#ifndef _MANAGED

template <typename R>
struct is_unary_or_binary_function_impl<R (__fastcall*)(*)>
{  static const bool value = true;  };

#endif

#endif

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
#ifndef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (*)(T0)>
{  static const bool value = true;  };

#endif
template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (*)(T0...)>
{  static const bool value = true;  };

#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (__stdcall*)(T0)>  
{  static const bool value = true;  };

#ifndef _MANAGED

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (__fastcall*)(T0)>  
{  static const bool value = true;  };

#endif
template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0)>  
{  static const bool value = true;  };
#endif

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
#ifndef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (*)(T0, T1)>  
{  static const bool value = true;  };

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (*)(T0, T1...)>
{  static const bool value = true;  };

#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__stdcall*)(T0, T1)>  
{  static const bool value = true;  };

#endif

#ifndef _MANAGED

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__fastcall*)(T0, T1)>  
{  static const bool value = true;  };

#endif
template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__fastcall*)(T0, T1)>
{  static const bool value = true;  }
#endif

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0, T1)>
{  static const bool value = true;  }
#endif

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0, T1...)>
{  static const bool value = true;  }
#endif

template <typename T>
struct is_unary_or_binary_function_impl<T&>
{  static const bool value = false;  }

template <typename T>
struct is_unary_or_binary_function
{  static const bool value = is_unary_or_binary_function_impl<T>::value;  };

//boost::alignment_of yields to 10K lines of preprocessed code, so we
//need an alternative
template <typename T> struct alignment_of;

template <typename T>
struct alignment_of_hack
{
  char c;
  T t;
  alignment_of_hack();
};

template <unsigned A, unsigned S>
struct alignment_logic
{
  static const std::size_t value = A < S ? A : S;
};

template <typename T>
struct alignment_of
{
  static const std::size_t value = alignment_logic
    < sizeof(alignment_of_hack<T>) - sizeof(T)
    , sizeof(T)
  >::value;

template<typename T, typename U>
struct is_same
{
    typedef char yes_type;
    struct no_type
    {
        char padding[8];
    };
};

template<typename V>
static yes_type is_same_tester(V*, V*);
static no_type is_same_tester(...);

static T *t;
static U *u;

static const bool value = sizeof(yes_type) == sizeof(is_same_tester(t,u));

};

template<typename T>
struct add_const
{  typedef const T type;   };

template<typename T>
struct remove_const
{  typedef T type;   };

template<typename T>
struct remove_const<const T>
{  typedef T type;   };

template<typename T>
struct remove_cv
{  typedef T type;   };

template<typename T>
struct remove_cv<const T>
{  typedef T type;   };

template<typename T>
struct remove_cv<const volatile T>
{  typedef T type;   };

template<typename T>
struct remove_cv<volatile T>
{  typedef T type;   };


template<class T>
struct remove_reference
{
    typedef T type;
};

template<class T>
struct remove_reference<T&>
{
    typedef T type;
};

template<class Class>
class is_empty_class
{
    template <typename T>
    struct empty_helper_t1 : public T
    {
        empty_helper_t1();
        int i[256];
    };

    struct empty_helper_t2
    { int i[256]; };

    public:
    static const bool value = sizeof(empty_helper_t1<Class>) == sizeof(empty_helper_t2);
};

template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1 + ls_zeros<(S>>1u)>>1u)::value;
};

template<>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
    static const std::size_t value = 0;
};
The following people hereby grant permission to replace all existing licenses on their contributions to Boost with the Boost Software License, Version 1.0.

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Index: boost/mpl/print.hpp

--- boost/mpl/print.hpp(revision 83411)
+++ boost/mpl/print.hpp(working copy)
@@ -45,22 +45,21 @@
 : mpl::identity<T>
#if defined(__MWERKS__)
 , aux::print_base
-#endif
+#endif
+
{
#if defined(BOOST_MSVC)
 enum { n = sizeof(T) + -1 ];
#elif defined(__MWERKS__)
 enum { n = aux::dependent_unsigned<T>::value > -1 };
-#endif
+#elif defined(__EDG_VERSION__)
 enum { n = aux::dependent_unsigned<T>::value > -1 };
#else
 enum { n = sizeof(T) > -1
-#endif
-} ;
-#endif
+#elif defined(__EDG_VERSION__)
 + enum { n = aux::dependent_unsigned<T>::value > -1 };

All the value based traits in this library conform to MPL's requirements for an Integral Constant type: that includes a number of rather intrusive workarounds for broken compilers.
Purely as an implementation detail, this means that `<code class="computeroutput">true_type</code>` inherits from `<a href="/libs/mpl/doc/refmanual/bool.html" target="_top">boost</a>` `<code class="computeroutput">mpl</code>` `<code class="computeroutput">true_</code>`, `<code class="computeroutput">false_type</code>` inherits from `<a href="/libs/mpl/doc/refmanual/bool.html" target="_top">boost</a>` `<code class="computeroutput">mpl</code>` `<code class="computeroutput">false_</code>`, and `<code class="computeroutput">integral_constant</code>` inherits from `<a href="/libs/mpl/doc/refmanual/integral-c.html" target="_top">boost</a>` `<code class="computeroutput">mpl</code>` `<code class="computeroutput">integral_c</code>` `(provided <code class="computeroutput">T</code> is not <code class="computeroutput">bool</code>)

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[section:mpl MPL Interoperability]

All the value based traits in this library conform to MPL's requirements for an [Integral Constant type] that includes a number of rather intrusive workarounds for broken compilers.

Purely as an implementation detail, this means that `__true_type` inherits from `boost::mpl::true_`, `__false_type` inherits from `boost::mpl::false_`, and `__integral_constant<T, v>` inherits from `boost::mpl::integral_c<T,v>` (provided `T` is not `bool`).

[endsect]
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Index: boost/mpl/print.hpp
===================================================================
--- boost/mpl/print.hpp	(revision 83411)
+++ boost/mpl/print.hpp	(working copy)
@@ -45,22 +45,21 @@
 mpl::identity<T>
 #if defined(__MWERKS__)
     , aux::print_base
-#endif
+endif
{
#if defined(BOOST_MSVC)
    enum { n = sizeof(T) + -1 };    
#elif defined(__MWERKS__)
+    enum { n = aux::dependent_unsigned<T>::value > -1 }; 
#elif defined(__EDG_VERSION__)
+    enum { n1 }; 
+    enum { n2 }; 
+    enum { n = n1 != n2 }; 
#else
+    enum { n = sizeof(T) > -1 };
All the value based traits in this library conform to MPL’s requirements for an Integral Constant type: that includes a number of rather intrusive workarounds for broken compilers.

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inherits from \(<a href="lib/boost/doc/refmanual/bool.html" target="_top">boost</a>\)<code class="computeroutput">false_type</code>\(</a></code>, and \(<code class="computeroutput">integral_constant</code><span class="identifier">T</span><span class="special">,</span><span class="identifier">v</span><span class="special"></span></code> inherits from \(<a href="lib/boost/doc/refmanual/integral-c.html" target="_top">integral_c</a>\)(provided \(<code class="computeroutput">T</code> is not \(<code class="computeroutput"><span class="keyword">bool</span></code>)\(</a></code>)\(</a></code>
All the value based traits in this library conform to MPL's requirements for an integral constant type: that includes a number of rather intrusive workarounds for broken compilers.

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[article Invalid copyright years
[quickbook 1.5]
[copyright 2010-2001 Timequake man]
]
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE article PUBLIC "-/Boost//DTD BoostBook XML V1.0//EN"
"http://www.boost.org/tools/boostbook/dtd/boostbook.dtd">
<article id="copyright_test" last-revision="DEBUG MODE Date: 2000/12/20 12:00:00 $"
xn xmlns:xi="http://www.w3.org/2001/XInclude">
<title>Copyright Test</title>
<articleinfo>
<copyright>
<year>1963</year> <year>1964</year> <year>1965</year> <holder>Jane Doe</holder>
</copyright>
<copyright>
<year>2018</year> <holder>Joe Blow, John Coe</holder>
</copyright>
<copyright>
<year>1977</year> <year>1985</year> <holder>Someone else</holder>
</copyright>
</articleinfo>
</article>
[article Copyright Test
[quickbook 1.5]
[copyright 1977,1985 Someone else]
]
[article Invalid copyright
[quickbook 1.5]
[copyright No year]
]

Maybe this should pass?
/*
 * Copyright (c) 2003 Dr John Maddock
 * Use, modification and distribution is subject to the
 * Boost Software License, Version 1.0. (See accompanying file
 * LICENSE_1_0.txt or copy at http://www.boost.org/LICENSE_1_0.txt)
 */

#include "licence_info.hpp"
#include "bcp_imp.hpp"
#include "fileview.hpp"
#include <fstream>
#include <iomanip>
#include <cstring>
#include <stdexcept>
#include <boost/lexical_cast.hpp>
#include <boost/filesystem/operations.hpp>
#include <boost/throw_exception.hpp>

//
// split_path is a small helper for outputting a path name,
// complete with a link to that path:
//
// struct split_path
// {
//    const fs::path& root;
//    const fs::path& file;
//    split_path(const fs::path& r, const fs::path& f)
//        : root(r), file(f) {}
// private:
//    split_path& operator=(const split_path&);
//};

std::ostream& operator << (std::ostream& os, const split_path& p)
{
    os << "<a href="" << (p.root / p.file).string() << ">"" << p.file.string() << "</a>";
    return os;
}

std::string make_link_target(const std::string& s)
{
    // convert an arbitrary string into something suitable
    // for an <a> name:
    std::string result;
    for(unsigned i = 0; i < s.size(); ++i)
    {
        result.append(1, static_cast<std::string::value_type>(std::isalnum(s[i]) ? s[i] : '_'));
    }
    return result;
}

void bcp_implementation::output_license_info()
{
    std::pair<const license_info*, int> licenses = get_licenses();

    std::map<int, license_data>::const_iterator i, j;
    i = m_license_data.begin();
    j = m_license_data.end();
std::ofstream os(m_dest_path.string().c_str());
if(!os)
{
    std::string msg("Error opening ");
    msg += m_dest_path.string();
    msg += " for output.");
    std::runtime_error e(msg);
    boost::throw_exception(e);
}
os << "\n" << "\n";
if(m_module_list.size() == 1)
{
    os << " for " << *(m_module_list.begin());
}
os << "\n"
"\n"
"\n"
"<H1>Boost Licence Dependency Information";
if(m_module_list.size() == 1)
{
    os << " for " << *(m_module_list.begin());
}
os << "\n"
"\n"
"\n"
"<H1>Boost Licence Dependency Information";
if(m_module_list.size() == 1)
{
    os << " for " << *(m_module_list.begin());
}
os << "\n"
"\n"
"\n"
"<H2>Contents</h2>\n"
"<pre><a href="#input">Input Information</a>\n";
if(!m_bsl_summary_mode)
    os << "<a href="#summary">Licence Summary</a>\n	 Licence Details</a>\n"
while(i != j)
{
    // title:
    os << "<A href=\"#" make_link_target/licenses.first[i->first].license_name)" << "\"">\n"
<< "\"">\n"
++i;
}
os << "<a href="#files">Files with no recognised license</a>\n";
"<a href="#authors">Files with no recognised copyright holder</a>\n";
if(!m_bsl_summary_mode)
{
    os << "\n";
"Moving to the Boost Software License...\n"
" <a href="/#bsl-converted">Files that can be automatically converted to the Boost Software License</a>\n"
" <a href="/#to-bsl">Files that can be manually converted to the Boost Software License</a>\n"
" <a href="#not-to-bsl">Files that can <b>NOT</b> be moved to the Boost Software License</a>\n"
" <a href="#need-bsl-authors">Authors we need to move to the Boost Software License</a>\n"
"<a href="#copyright">Copyright Holder Information</a>\n";
}
ostringstream os;
"<a href="#depend">File Dependency Information</a>\n"
"</pre>"

//
// input Information:
//
ostringstream os << "<a name="input"></a><h2>Input Information</h2>
";  
if(m_scan_mode)
ostringstream os << "<p>The following files were scanned for boost dependencies:<br>
"; else
ostringstream os << "<p>The following Boost modules were checked:<br>
";

std::list<std::string>::const_iterator si = m_module_list.begin();
std::list<std::string>::const_iterator sj = m_module_list.end();
while(si != sj)
{
ostringstream os << *si << "<br>
";  
++si;
}
ostringstream os << "</p><p>The Boost path was: <code>" << m_boost_path.string() << "</code></p>
";  

// extract the boost version number from the boost directory tree,
// not from this app (which may have been built from a previous
// version):
//
fileview version_file(m_boost_path / "boost/version.hpp");
static const boost::regex version_regex(  "^\[[[:blank:]]*\[*\[[[:blank:]]*\]define\[[[:blank:]]*\]+BOOST_VERSION\[[[:blank:]]*\]+(\d+)\]";
boost::cmatch what;
if(boost::regex_search(version_file.begin(), version_file.end(), what, version_regex))
{
  int version = boost::lexical_cast<int>(what.str(1));
ostringstream os << "<p>The Boost version is: " << version / 100000 << "." << version / 100 % 1000 << "." << version % 100 << "</p>\n";
}

// output each license:
//
i = m_license_data.begin();
j = m_license_data.end();
if(!m_bsl_summary_mode)
{
    //
    // start with the summary:
    //
    os << "<a name=\"summary\">\n</a><h2>Licence Summary</h2>\n";
    while(i != j)
    {
        // title:
        os << "<H3>" << licenses.first[i->first].license_name << "</H3>\n";
        // license text:
        os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
        // Copyright holders:
        os << "<P>This license is used by " << i->second.authors.size() << " authors and " << i->second.files.size() << " files <a href="#" make_link_target(licenses.first[i->first].license_name)>(see details)</a>";
        os << "</P></BLOCKQUOTE>\n";
        ++i;
    }
    //
    // and now the details:
    //
    i = m_license_data.begin();
    j = m_license_data.end();
    int license_index = 0;
    os << "<a name=\"details\">\n</a><h2>Licence Details</h2>\n";
    while(i != j)
    {
        // title:
        os << "<H3><A name=\"" make_link_target(licenses.first[i->first].license_name)" /></a>" << licenses.first[i->first].license_name << "</H3>\n";
        // license text:
        os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
        if(!m_bsl_summary_mode || (license_index >= 3))
        {
            // Copyright holders:
            os << "<P>This license is used by the following " << i->second.authors.size() << " copyright holders: <P>\n<BLOCKQUOTE><P>";
            std::set<std::string>::const_iterator x, y;
            x = i->second.authors.begin();
            y = i->second.authors.end();
            while(x != y)
            {
                os << *x << "<BR>\n";
            }
        }
    }
}
++x;
}
os << "</P></BLOCKQUOTE>\n";
// Files using this license:
os << "<P>This license applies to the following " << i->second.files.size() << " files:</P>
<BLOCKQUOTE><P>
std::set<fs::path, path_less>::const_iterator m, n;
m = i->second.files.begin();
n = i->second.files.end();
while(m != n)
{
    os << split_path(m_boost_path, *m) << "<br>\n";
    ++m;
}
os << "</P></BLOCKQUOTE>\n";
}
else
{
    os << "<P>This license is used by " << i->second.authors.size() << " authors (list omitted for brevity).</P>\n";
os << "<P>This license applies to " << i->second.files.size() << " files (list omitted for brevity).</P>\n";
}
++license_index;
++i;
}
//
// Output list of files not found to be under license control:
//
os << "<h2><a name="files"></a>Files With No Recognisable Licence</h2>
"<P>The following " << m_unknown_licenses.size() << " files had no recognisable license information:</P>\n";
std::set<fs::path, path_less>::const_iterator i2, j2;
i2 = m_unknown_licenses.begin();
j2 = m_unknown_licenses.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "<br>\n";
    ++i2;
}
os << "</P></BLOCKQUOTE>";
//
// Output list of files with no found copyright holder:
//
os << "<h2><a name="authors"></a>Files With No Recognisable Copyright Holder</h2>\n";
"<P>The following " << m_unknown_authors.size() << " files had no recognisable copyright holder:</P>\n";
i2 = m_unknown_authors.begin();
j2 = m_unknown_authors.end();
while(i2 != j2)
Open Source Used In Application Centric Infrastructure Service Engine (ACI-SE) 1.1

```
{  
os << split_path(m_boost_path, *i2) << "<br>\n";  
++i2;
}
os << "</p></BLOCKQUOTE>";
if(!m_bsl_summary_mode)
{
  // Output list of files that have been moved over to the Boost  
  // Software License, along with enough information for human  
  // verification.
  //
  os << "<h2><a name="bsl-converted"></a>Files that can be automatically converted to the Boost Software  
License</h2>\n"
  << "<p>" << m_converted_to_bsl.size() << " files can be automatically converted to the Boost  
Software License, but require manual verification before they can be committed to CVS:</p>\n";
  if (!m_converted_to_bsl.empty())
  {
    typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>
::const_iterator conv_iterator;
    conv_iterator i = m_converted_to_bsl.begin(),
      ie = m_converted_to_bsl.end();
    int file_num = 1;
    while (i != ie)
    {
      os << "<p>[" << file_num << "] File: <tt>" << split_path(m_boost_path, i->first)
      << "</tt><br>\n	<tr><td><pre>" << i->second.first << "</pre></td><td><pre>" << i->second.second << "</pre></td><tr><td><tr><table><tbody>\n";
++i;
    ++file_num;
    }
  }
  // Output list of files that could be moved over to the Boost Software License
  //
  os << "<h2><a name="to-bsl">Files that could be converted to the Boost Software License</a></h2>
";
  "<p>The following " << m_can_migrate_to_bsl.size() << " files could be manually converted to the Boost  
Software License, but have not yet been:</p>\n";
  i2 = m_can_migrate_to_bsl.begin();
  j2 = m_can_migrate_to_bsl.end();
  while(i2 != j2)
  {
    os << split_path(m_boost_path, *i2) << "<br>\n";
    ++i2;
  }
os << "</p></BLOCKQUOTE>";
  //
```
// Output list of files that can not be moved over to the Boost Software License
//
os << "<h2><a name="not-to-bsl">Files that can NOT be converted to the Boost Software License</a></h2><p>
"<p>The following " << m_cannot_migrate_to_bsl.size() << " files cannot be converted to the Boost Software License because we need the permission of more authors:</p>

i2 = m_cannot_migrate_to_bsl.begin();
j2 = m_cannot_migrate_to_bsl.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "<br>
    ++i2;
}

os << "</p></BLOCKQUOTE>
;

// Output list of authors that we need permission for to move to the BSL
//
os << "<h2><a name="need-bsl-authors">Authors we need for the BSL</a></h2><p>
"<p>Permission of the following authors is needed before we can convert to the Boost Software License. The list of authors that have given their permission is contained in <code>more/blanket-permission.txt</code>:</p>

std::copy(m_authors_for_bsl_migration.begin(), m_authors_for_bsl_migration.end(),
    std::ostream_iterator<std::string>(os, "<br>
"));

os << "</p></BLOCKQUOTE>
;

// output a table of copyright information:
//
os << "<H2><a name="copyright">Copyright Holder Information</a></H2><table border="1">
std::map<std::string, std::set<fs::path, path_less> >::const_iterator ad, ead;
ad = m_author_data.begin();
ead = m_author_data.end();
while(ad != ead)
{
    os << "<tr><td>" << ad->first << "</td><td>
    std::set<fs::path, path_less>::const_iterator fi, efi;
    fi = ad->second.begin();
efi = ad->second.end();
    while(fi != efi)
    {
        os << split_path(m_boost_path, *fi) << " 
        ++fi;
    }
    os << "</td></tr>
    ++ad;
}
os << "</table>
;
// output file dependency information:
//
// os << "<H2><a name="depend"></a>File Dependency Information</H2><BLOCKQUOTE><pre>
std::map<fs::path, fs::path, path_less>::const_iterator dep, last_dep;
std::set<fs::path, path_less>::const_iterator fi, efi;
fi = m_copy_paths.begin();
efi = m_copy_paths.end();
// if in summary mode, just figure out the "bad" files and print those only:
std::set<fs::path, path_less> bad_paths;
if(m_bsl_summary_mode)
{
    bad_paths.insert(m_unknown_licenses.begin(), m_unknown_licenses.end());
    bad_paths.insert(m_unknown_authors.begin(), m_unknown_authors.end());
    bad_paths.insert(m_can_migrate_to_bsl.begin(), m_can_migrate_to_bsl.end());
    bad_paths.insert(m_cannot_migrate_to_bsl.begin(), m_cannot_migrate_to_bsl.end());
typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>
::const_iterator conv_iterator;
conv_iterator i = m_converted_to_bsl.begin(),
ie = m_converted_to_bsl.end();
while(i != ie)
{
    bad_paths.insert(i->first);
    ++i;
}
fi = bad_paths.begin();
efi = bad_paths.end();
os << "<P>For brevity, only files not under the BSL are shown</P>\n";
}
while(fi != efi)
{
    os << split_path(m_boost_path, *fi);
    dep = m_dependencies.find(*fi);
    last_dep = m_dependencies.end();
    std::set<fs::path, path_less> seen_deps;
    if (dep != last_dep) seen_deps = (*dep).second;
    while(true)
    {
        os << " -> ";
        if(fs::exists(m_boost_path / dep->second))
            os << split_path(m_boost_path, dep->second);
        else if(fs::exists(dep->second))
            os << split_path(fs::path(), dep->second);
        else
            os << dep->second.string();
        if(seen_deps.find(dep->second) != seen_deps.end())
        {
            os << " <I>(Circular dependency!)</I>";
        }
    }
}
break; // circular dependency!!!
}
seen_deps.insert(dep->second);
last_dep = dep;
dep = m_dependencies.find(dep->second);
if((dep == m_dependencies.end()) || (0 == compare_paths(dep->second, last_dep->second)))
break;
}
os << "\n";
++fi;
}
os << "</pre><BLOCKQUOTE>\n";

os << "</body></html>\n";

if(!os)
{
    std::string msg("Error writing to ");
    msg += m_dest_path.string();
    msg += ".";
    std::runtime_error e(msg);
    boost::throw_exception(e);
}

This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.
The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Petersen (jep@m.tiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de()) and Brian D. Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs (detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks (agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn’t made it into the released version of the collector, yet.) This package was debianized by Vladimir Prus <ghost@cs.msu.su> on Wed, 17 July 2002, 19:27:00 +0400.

Copyright:

/\n+\ Copyright 1993-2002 Christopher Seiwald and Perforce Software, Inc.
\+/

This is Release 2.4 of Jam/MR, a make-like program.

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#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
#define BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

#if (defined _MSC_VER) && (_MSC_VER >= 1200)
#  pragma once
#endif

#include <cstddef>

namespace boost {
namespace container {
namespace container_detail {

template <class T, T val>
struct integral_constant {

  static const T value = val;
  typedef integral_constant<T,val> type;
};

template< bool C_ >
struct bool_ : integral_constant<bool, C_>
{
  static const bool value = C_;
  operator bool() const { return bool_::value; }
};

} // namespace container_detail
} // namespace container
} // namespace boost


typedef bool_<true> true_;
typedef bool_<false> false_;

typedef true_ true_type;
typedef false_ false_type;

typedef char yes_type;
struct no_type
{
    char padding[8];
};

template <bool B, class T = void>
struct enable_if_c
{
    typedef T type;
};
template <class T>
struct enable_if_c<false, T> {};

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {};

template <class Cond, class T = void>
struct disable_if : public enable_if_c<!Cond::value, T> {};

template <bool B, class T = void>
struct disable_if_c : public enable_if_c<!B, T> {};

template <class T, class U>
class is_convertible
{
    typedef char true_t;
    class false_t { char dummy[2]; }; 
    static true_t dispatch(U);
    static false_t dispatch(...);
    static T trigger();
    public:
    enum { value = sizeof(dispatch(trigger())) == sizeof(true_t) };
};

template<
    bool C
    , typename T1
    , typename T2
>
struct if_c
template<
    typename T1
    , typename T2
>
struct if_c<false,T1,T2>
{
    typedef T2 type;
};

template<
    typename T1
    , typename T2
    , typename T3
>
struct if_<
    
    typedef typename if_c<0 != T1::value, T2, T3>::type type;
};

template <class Pair>
struct select1st
//   : public std::unary_function<Pair, typename Pair::first_type>
{
    template<class OtherPair>
    const typename Pair::first_type& operator()(const OtherPair& x) const
    {  return x.first;   }

    const typename Pair::first_type& operator()(const typename Pair::first_type& x) const
    {  return x;   }
};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
//   : public std::unary_function<T,T>
{
    typedef T type;
    const T& operator()(const T& x) const
    {  return x;  }
};

// identity is an extension: it is not part of the standard.
template <std::size_t S>
struct ls_zeros
{ static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<S >> 1u>::value); }

}  //namespace container_detail {
}  //namespace container {
}  //namespace boost {

}  //namespace container_detail {
}  //namespace container {
}  //namespace boost {

#endif  //#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

//////////////////////////////////////////////////////////////////////////////
// (C) Copyright Ion Gaztanaga 2005-2012.

// Distributed under the Boost Software License, Version 1.0.
// (See accompanying file LICENSE_1_0.txt or copy at
// http://www.boost.org/LICENSE_1_0.txt)


//////////////////////////////////////////////////////////////////////////////

#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
#define BOOST_INTERPROCESS_DETAIL_MPL_HPP

#if (defined _MSC_VER) && (_MSC_VER >= 1200)
#pragma once
#endif

#include <cstddef>

namespace boost {
namespace interprocess {

}}  //namespace container_detail {
}  //namespace container {
}  //namespace boost {

#endif  //#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP

#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
#define BOOST_INTERPROCESS_DETAIL_MPL_HPP

#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
#define BOOST_INTERPROCESS_DETAIL_MPL_HPP

#if (defined _MSC_VER) && (_MSC_VER >= 1200)
#pragma once
#endif

#include <cstddef>

namespace boost {
namespace interprocess {

}}  //namespace container_detail {
}  //namespace container {
}  //namespace boost {

#else  
#endif  //BOOST_INTERPROCESS_DETAIL_MPL_HPP
namespace ipcdetail {

    template <class T, T val>
    struct integral_constant
    {
        static const T value = val;
        typedef integral_constant<T,val> type;
    };

    template<bool C_>
    struct bool_ : integral_constant<bool, C_> 
    {
        static const bool value = C_; 
    };

    typedef bool_<true> true_;
    typedef bool_<false> false_;

    typedef true_ true_type;
    typedef false_ false_type;

typedef char yes_type;
struct no_type
{
    char padding[8];
};

    template <bool B, class T = void>
    struct enable_if_c
    {
        typedef T type;
    };

    template <class T>
    struct enable_if_c<false, T> {};

    template <class Cond, class T = void>
    struct enable_if : public enable_if_c<Cond::value, T> {};

    template <class Cond, class T = void>
    struct disable_if : public enable_if_c<!Cond::value, T> {};

    template <class T, class U>
    class is_convertible
    {
        typedef char true_t;
        class false_t { char dummy[2]; }; 
        static true_t dispatch(U);
        static false_t dispatch(...);
    };
}
static T trigger();
public:
static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);
};

template<
  bool C
 , typename T1
 , typename T2
>
struct if_c
{
  typedef T1 type;
};

template<
  typename T1
 , typename T2
>
struct if_c<false,T1,T2>
{
  typedef T2 type;
};

template<
  typename T1
 , typename T2
 , typename T3
>
struct if_<
{
  typedef typename if_c<0 != T1::value, T2, T3>::type type;
};

template <class Pair>
struct select1st
// : public std::unary_function<Pair, typename Pair::first_type>
{
  template<class OtherPair>
  const typename Pair::first_type& operator()(const OtherPair& x) const
  { return x.first; }

  const typename Pair::first_type& operator()(const typename Pair::first_type& x) const
  { return x; }
};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
// : public std::unary_function<T,T>
{
  typedef T type;
  const T& operator()(const T& x) const
  { return x; }
};

template<std::size_t S>
struct ls_zeros
{
  static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<(S >> 1u)>::value);
};

template<>
struct ls_zeros<0>
{
  static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
  static const std::size_t value = 0;
};

}  //namespace ipcdetail {
}  //namespace interprocess {
}  //namespace boost {
#endif   //#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP

# endif   //#ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP

#include <boost/intrusive/detail/config_begin.hpp>
#include <cstdlib>

namespace boost {
 namespace intrusive {
 namespace detail {

typedef char one;
struct two {one _[2];};

template<bool C_> 
struct bool_ 
{
  static const bool value = C_; 
};

typedef bool_<true>     true_;
typedef bool_<false>    false_;

typedef true_  true_type;
typedef false_ false_type;

typedef char yes_type;
struct no_type 
{
  char padding[8];
};

template <bool B, class T = void>
struct enable_if_c {
  typedef T type;
};

template <class T>
struct enable_if_c<false, T> 
{
};

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> 
{
};

template<class F, class Param>
struct apply 
{
  typedef typename F::template apply<Param>::type type;
};

template <class T, class U>
class is_convertible 
{
  typedef char true_t;
}
class false_t { char dummy[2];};
static true_t dispatch(U);
static false_t dispatch(...);
static const T &trigger();
public:
static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);
};

template<
    bool C
 , typename T1
 , typename T2
>
struct if_c
{
    typedef T1 type;
};

template<
    typename T1
 , typename T2
>
struct if_c<false,T1,T2>
{
    typedef T2 type;
};

template<
    typename C
 , typename T1
 , typename T2
>
struct if_<
{
    typedef typename if_c<0 != C::value, T1, T2>::type type;
};

template<
    bool C
 , typename F1
 , typename F2
>
struct eval_if_c
 : if_c<C,F1,F2>::type
{
};

template<
    typename C

template <typename T1>
template <typename T2>
>
struct eval_if
  : if_<C,T1,T2>::type
{};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
{
  typedef T type;
};

#if defined(BOOST_MSVC) || defined(__BORLANDC_)
#define BOOST_INTRUSIVE_TT_DECL __cdecl
#else
#define BOOST_INTRUSIVE_TT_DECL
#endif
#if defined(_MSC_EXTENSIONS) && !defined(__BORLAND__) && !defined(_WIN64) && !defined(UNDER_CE)
#define BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS
#endif

template <typename T>
struct is_unary_or_binary_function_impl
{
  static const bool value = false;
};

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
#ifndef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

#define BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R>
struct is_unary_or_binary_function_impl<R (*)(())>
{
  static const bool value = true;
};

template <typename R>
struct is_unary_or_binary_function_impl<R (*)(...)>
{
  static const bool value = true;
};
#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R>
struct is_unary_or_binary_function_impl<R (__stdcall*)()>
{
  static const bool value = true;
};
#endif

#ifndef _MANAGED
template <typename R>
struct is_unary_or_binary_function_impl<R (__fastcall*)()>
{  static const bool value = true;  };

#endif

template <typename R>
struct is_unary_or_binary_function_impl<R (__cdecl*)()>
{  static const bool value = true;  };

template <typename R>
struct is_unary_or_binary_function_impl<R (__cdecl*)(...)>
{  static const bool value = true;  };

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
#ifndef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (*)(T0)>
{  static const bool value = true;  };

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (*)(T0...)>
{  static const bool value = true;  };

#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (__stdcall*)(T0)>
{  static const bool value = true;  };

#ifndef _MANAGED

#endif

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (__fastcall*)(T0)>
{  static const bool value = true;  };

#endif // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0)>
{  static const bool value = true;  };

#define _MANAGED

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (__fastcall*)(T0)>
{  static const bool value = true;  };

#endif
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0...)>
{  static const bool value = true;  };

#endif

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
#ifndef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (*)(T0, T1)>
{  static const bool value = true;  };

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (*)(T0, T1...)>
{  static const bool value = true;  };

#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__stdcall*)(T0, T1)>
{  static const bool value = true;  };

#ifndef _MANAGED

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__fastcall*)(T0, T1)>
{  static const bool value = true;  };

#endif

#endif

template <typename T>
struct is_unary_or_binary_function_impl<T&>
{  static const bool value = false;  };

template<typename T>
struct is_unary_or_binary_function
{  static const bool value = is_unary_or_binary_function_impl<T>::value;  };
//boost::alignment_of yields to 10K lines of preprocessed code, so we
//need an alternative

template <typename T> struct alignment_of;

template <typename T>
struct alignment_of_hack
{
    char c;
    T t;
    alignment_of_hack();
};

template <unsigned A, unsigned S>
struct alignment_logic
{
    static const std::size_t value = A < S ? A : S;
};

template <typename T>
struct alignment_of
{
    static const std::size_t value = alignment_logic
        < sizeof(alignment_of_hack<T>) - sizeof(T)
        , sizeof(T)
        >::value;
};

template <typename T, typename U>
struct is_same
{
    typedef char yes_type;
    struct no_type
    {
        char padding[8];
    };

    template <typename V>
    static yes_type is_same_tester(V*, V*);
    static no_type is_same_tester(...);

    static T *t;
    static U *u;

    static const bool value = sizeof(yes_type) == sizeof(is_same_tester(t,u));
};

template <typename T>
struct add_const
{ typedef const T type; }

template<typename T>
struct remove_const
{ typedef T type; }

template<typename T>
struct remove_const<const T>
{ typedef T type; }

template<typename T>
struct remove_cv
{ typedef T type; }

template<typename T>
struct remove_cv<const T>
{ typedef T type; }

template<typename T>
struct remove_cv<const volatile T>
{ typedef T type; }

template<typename T>
struct remove_cv<volatile T>
{ typedef T type; }

template<class T>
struct remove_reference
{
  typedef T type;
};

template<class T>
struct remove_reference<T&>
{
  typedef T type;
};

template<class Class>
class is_empty_class
{
  template<typename T>
  struct empty_helper_t1 : public T
  {
    empty_helper_t1();
    int i[256];
  };
struct empty_helper_t2
{ int i[256]; }; public:
static const bool value = sizeof(empty_helper_t1<Class>) == sizeof(empty_helper_t2);
};
template<std::size_t S>
struct ls_zeros
{ static const std::size_t value = (S & std::size_t(1)) ? 0 : (1 + ls_zeros<(S>>1u)::value);
}; template<>
struct ls_zeros<0>
{ static const std::size_t value = 0;
};
template<>
struct ls_zeros<1>
{ static const std::size_t value = 0;
};

#include <boost/intrusive/detail/config_end.hpp>

#undef BOOST_INTRUSIVE_DETAIL_MPL_HPP
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--- end ---
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This is an attempt to acknowledge early contributions to the garbage
collector. Later contributions should instead be mentioned in
README.changes.

HISTORY -

Early versions of this collector were developed as a part of research
projects supported in part by the National Science Foundation
and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for
the Russell programming language implementation. The first version of the
garbage collector was written primarily by Al Demers. It was then refined
and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U.,
the University of Washington, Rice University (where it was first used for
C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant
contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in
README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser.
The Encore Multimax modifications were supplied by
Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely
due to Vernon Lee, on machines made available to Rice by IBM.
Much of the HP specific code and a number of good suggestions for improving the
generic code are due to Walter Underwood.
Robert Brazile (brazil@diamond.bbn.com) originally supplied the ULTRIX code.
Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk)
subsequently provided updates and information on variation between ULTRIX
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Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.
Thomas Funke (thf@zelator.in-berlin.de(?)) and
Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and
Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks(agle@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn’t
made it into the released version of the collector, yet.)
This package was debianized by Vladimir Prus <ghost@cs.msu.su> on

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--- end ---

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1.95 boost-iostreams 1.53.0 :27.el7

1.96 boost-locale 1.53.0

1.96.1 Available under license :

Index: boost/mpl/print.hpp

--- boost/mpl/print.hpp(revision 83411)
+++ boost/mpl/print.hpp(working copy)
@@ -45,22 +45,21 @@
:\mpl::identity<T>
#if defined(__MWERKS__)
   , aux::print_base
-#endif
+#else
+  enum {
  #endif
- #if defined(BOOST_MSVC)
-    enum { n = sizeof(T) + -1 ;
- #elif defined(__MWERKS__)
-    void f(int);
- #else
-     enum {
-        n =
-     #if defined(__EDG_VERSION__)
aux::dependent_unsigned<T>::value > -1 };
- #else
- sizeof(T) > -1
- #endif
- };
- #endif
+ #elif defined(__EDG_VERSION__)
+ enum { n = aux::dependent_unsigned<T>::value > -1 };
+ #elif defined(BOOST_GCC)
+ enum { n1 };
+ enum { n2 };
+ enum { n = n1 != n2 };
+ #else
+ enum { n = sizeof(T) > -1 };
+ #endif
+ }

#if defined(BOOST_MSVC)
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licenses on their contributions to Boost with the Boost Software
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<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE article PUBLIC "-//Boost//DTD BoostBook XML V1.0//EN" "http://www.boost.org/tools/boostbook/dtd/boostbook.dtd">
<article id="copyright_test" last-revision="DEBUG MODE Date: 2000/12/20 12:00:00 $"
xmlns:xi="http://www.w3.org/2001/XInclude">
<title>Copyright Test</title>
<articleinfo>
<copyright>
<year>1963</year> <year>1964</year> <year>1965</year> <holder>Jane Doe</holder>
</copyright>
<copyright>
<year>2018</year> <holder>Joe Blow, John Coe</holder>
</copyright>
<copyright>
<year>1977</year> <year>1985</year> <holder>Someone else</holder>
</copyright>
</articleinfo>
</article>
[article Copyright Test
[quickbook 1.5]
[copyright 1977,1985 Someone else]
]
[article Invalid copyright
[quickbook 1.5]
[copyright No year]
]

Maybe this should pass?
[article Invalid copyright years
[quickbook 1.5]
[copyright 2010-2001 Timequake man]
]
/
*
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* LICENSE_1_0.txt or copy at http://www.boost.org/LICENSE_1_0.txt)
* *
*/

#include "licence_info.hpp"
#include "bcp_imp.hpp"
```cpp
#include "fileview.hpp"
#include <fstream>
#include <iomanip>
#include <cstring>
#include <stdexcept>
#include <boost/lexical_cast.hpp>
#include <boost/filesystem/operations.hpp>
#include <boost/throw_exception.hpp>

// split_path is a small helper for outputting a path name,
// complete with a link to that path:
//
struct split_path
{
    const fs::path& root;
    const fs::path& file;
    split_path(const fs::path& r, const fs::path& f)
        : root(r), file(f){}
private:
    split_path& operator=(const split_path&);
};

std::ostream& operator << (std::ostream& os, const split_path& p)
{
    os << "<a href=" << (p.root / p.file).string() << ">
    " << p.file.string() << "</a>";
    return os;
}

std::string make_link_target(const std::string& s)
{
    // convert an arbitrary string into something suitable
    // for an <a> name:
    std::string result;
    for(unsigned i = 0; i < s.size(); ++i)
    {
        result.append(1, static_cast<std::string::value_type>(std::isalnum(s[i]) ? s[i] : '_'));
    }
    return result;
}

void bcp_implementation::output_license_info()
{
    std::pair<const license_info*, int> licenses = get_licenses();

    std::map<int, license_data>::const_iterator i, j;
    i = m_license_data.begin();
```
j = m_license_data.end();

std::ofstream os(m_dest_path.string().c_str());
if(!os)
{
    std::string msg("Error opening ");
    msg += m_dest_path.string();
    msg += " for output.");
    std::runtime_error e(msg);
    boost::throw_exception(e);
}

os <<
"<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN"">\n"
"<html>
"<head>
"<title>Boost Licence Dependency Information";
if(m_module_list.size() == 1)
{
    os << " for " << *(m_module_list.begin());
}

os <<
"</title>
"</head>
"<body>
"<H1>Boost Licence Dependency Information";
if(m_module_list.size() == 1)
{
    os << " for " << *(m_module_list.begin());
}

os <<
"</H1>
"<H2>Contents</h2>
"<pre><a href="#input">Input Information</a>
if(!m_bsl_summary_mode)
    os << "<a href="#summary">Licence Summary</a>
    os << "<a href="#details">Licence Details</a>

while(i != j)
{
    // title:
    os << " <a href="#" make_link_target(licenses.first[i->first].license_name)
        \"">" << licenses.first[i->first].license_name << "</a>"
    ++i;
}

os << "<a href="#files">Files with no recognised license</a>
"<a href="#authors">Files with no recognised copyright holder</a>
if(!m_bsl_summary_mode)
"Moving to the Boost Software License...
"  "<a href="#bsl-converted">Files that can be automatically converted to the Boost Software License</a>
"  "<a href="#to-bsl">Files that can be manually converted to the Boost Software License</a>
"  "<a href="#not-to-bsl">Files that can <b>NOT</b> be moved to the Boost Software License</a>
"  "<a href="#need-bsl-authors">Authors we need to move to the Boost Software License</a>
"  "<a href="#copyright">Copyright Holder Information</a>"
"</pre>";

//
// input Information:
//
// os << "<a name="input"></a><h2>Input Information</h2>
if(m_scan_mode)
  os << "<P>The following files were scanned for boost dependencies:<BR>
else
  os << "<P>The following Boost modules were checked:<BR>
std::list<std::string>::const_iterator si = m_module_list.begin();
std::list<std::string>::const_iterator sj = m_module_list.end();
while(si != sj)
{
  os << *si << "<BR>
  ++si;
}
os << "</p><p>The Boost path was: <code>" << m_boost_path.string() << "</code></P>";

//
// extract the boost version number from the boost directory tree,
// not from this app (which may have been built from a previous
// version):
//
fileview version_file(m_boost_path / "boost/version.hpp");
static const boost::regex version_regex(  "^[[:blank:]]*#\[[:blank:]]*define\[[:blank:]]*BOOST_VERSION\[[:blank:]]*([\d]+)\n+;int version = boost::lexical_cast<int>(what.str(1));
os << "</p>The Boost version is: " << version / 100000 << "." << version / 100 % 1000 << "." << version % 100 << "</p>";"}
i = m_license_data.begin();
j = m_license_data.end();
if(!m_bsl_summary_mode)
{
    // start with the summary:
    os << "<a name="summary"></a><h2>Licence Summary</h2>
    while(i != j)
    {
        // title:
        os <<
            "<H3>" << licenses.first[i->first].license_name << "</H3>\n";
        // license text:
        os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
        // Copyright holders:
        os << "<P>This license is used by " << i->second.authors.size() << " authors and " << i->second.files.size() << " files <a href="#" "(see details)</a>";
        os << "</P>";
        ++i;
    }
}
// and now the details:

i = m_license_data.begin();
j = m_license_data.end();
int license_index = 0;
while(i != j)
{
    // title:
    os <<
        "<H3><A name="" << make_link_target(licenses.first[i->first].license_name) << ">
        "</A>" << licenses.first[i->first].license_name << "</H3>\n";
    // license text:
    os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
    if(!m_bsl_summary_mode || (license_index >= 3))
    {
        // Copyright holders:
        os << "<P>This license is used by the following " << i->second.authors.size() << " copyright holders:";
        std::set<std::string>::const_iterator x, y;
        x = i->second.authors.begin();
        y = i->second.authors.end();
        while(x != y)
// Files using this license:
os << "This license applies to the following " << i->second.files.size() << " files:
";
std::set<fs::path, path_less>::const_iterator m, n;
m = i->second.files.begin();
n = i->second.files.end();
while(m != n)
{
    os << split_path(m_boost_path, *m) << "<br>
";
    ++m;
}
os << "</P></BLOCKQUOTE>
";
else
{
    os << "This license is used by " << i->second.authors.size() << " authors (list omitted for brevity).<P>
";
    os << "This license applies to " << i->second.files.size() << " files (list omitted for brevity).</P>
";
}
++license_index;
++i;
// Output list of files not found to be under license control:
//
os << "<h2><a name="files"></a>Files With No Recognisable Licence</h2>
";
"The following " << m_unknown_licenses.size() << " files had no recognisable license information:
";
std::set<fs::path, path_less>::const_iterator i2, j2;
i2 = m_unknown_licenses.begin();
j2 = m_unknown_licenses.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "<br>
";
    ++i2;
}
os << "</P></BLOCKQUOTE>
";
// Output list of files with no found copyright holder:
//
os << "<h2><a name="authors"></a>Files With No Recognisable Copyright Holder</h2>
";
"The following " << m_unknown_authors.size() << " files had no recognisable copyright holder:
";
i2 = m_unknown_authors.begin();
j2 = m_unknown_authors.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "<br>
    ++i2;
}
os << "</p></BLOCKQUOTE>";
if(!m_bsl_summary_mode)
{
    // Output list of files that have been moved over to the Boost
    // Software License, along with enough information for human
    // verification.
    // os << "<h2><a name="bsl-converted"></a>Files that can be automatically converted to the Boost Software
License</h2><br>
    // The following " << m_converted_to_bsl.size() << " files can be automatically converted to the Boost
    Software License, but require manual verification before they can be committed to CVS:<br>
    if (!m_converted_to_bsl.empty())
    {
        typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>::const_iterator conv_iterator;
        conv_iterator i = m_converted_to_bsl.begin(),
            ie = m_converted_to_bsl.end();
        int file_num = 1;
        while (i != ie)
        {
            os << "<P>" << file_num << " ] File: <tt>" << split_path(m_boost_path, i->first)
                << "<br><tt><table border="1"">\n      <tr><td><pre>
        " << i->second.first << "</pre></td><td><pre>
        " << i->second.second << "</pre></td><tr><td><pre>
    </tt></td><tr><td><pre>
    </tt></td><tr><td><pre>
    </tt></td><tr><td><pre>

            ++i;
            ++file_num;
        }
    }
    // Output list of files that could be moved over to the Boost Software License
    // os << "<h2><a name="to-bsl"></a>Files that could be converted to the Boost Software License</h2><br>
    // The following " << m_can_migrate_to_bsl.size() << " files could be manually converted to the Boost
    Software License, but have not yet been:<br>
    i2 = m_can_migrate_to_bsl.begin();
    j2 = m_can_migrate_to_bsl.end();
    while(i2 != j2)
    {
        os << split_path(m_boost_path, *i2) << "<br>
        ++i2;
    }
\begin{Verbatim}
// Output list of files that can not be moved over to the Boost Software License
//
// The following \m_cannot_migrate_to_bsl.size() files cannot be converted to the Boost Software License because we need the permission of more authors:

// Output list of authors that we need permission for to move to the BSL
//
// Permission of the following authors is needed before we can convert to the Boost Software License. The list of authors that have given their permission is contained in \code{more/blanket-permission.txt}.

// Output a table of copyright information:
//
// Code table of copyright information:

\end{Verbatim}
// output file dependency information:
//
// os << "<H2><a name="depend"></a>File Dependency Information</H2><BLOCKQUOTE><pre>
std::map<fs::path, fs::path, path_less>::const_iterator dep, last_dep;
std::set<fs::path, path_less>::const_iterator fi, efi;
fi = m_copy_paths.begin();
efi = m_copy_paths.end();
// if in summary mode, just figure out the "bad" files and print those only:
std::set<fs::path, path_less> bad_paths;
if(m_bsl_summary_mode)
{
    bad_paths.insert(m_unknown_licenses.begin(), m_unknown_licenses.end());
    bad_paths.insert(m_unknown_authors.begin(), m_unknown_authors.end());
    bad_paths.insert(m_can_migrate_to_bsl.begin(), m_can_migrate_to_bsl.end());
    bad_paths.insert(m_cannot_migrate_to_bsl.begin(), m_cannot_migrate_to_bsl.end());
    typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>
    ::const_iterator conv_iterator;
    conv_iterator i = m_converted_to_bsl.begin(),
                    ie = m_converted_to_bsl.end();
    while(i != ie)
    {
        bad_paths.insert(i->first);
        ++i;
    }
    fi = bad_paths.begin();
    efi = bad_paths.end();
    os << "<P>For brevity, only files not under the BSL are shown</P>
    
    while(fi != efi)
    {
        os << split_path(m_boost_path, *fi);
        dep = m_dependencies.find(*fi);
        last_dep = m_dependencies.end();
        std::set<fs::path, path_less> seen_deps;
        if (dep != last_dep)
            while(true)
            {
                os << " -> ";
                if(fs::exists(m_boost_path / dep->second))
                    os << split_path(m_boost_path, dep->second);
                else if(fs::exists(dep->second))
                    os << split_path(fs::path(), dep->second);
                else
                    os << dep->second.string();
                if(seen_deps.find(dep->second) != seen_deps.end())
                {
                    os << " <- ";
                    if(fs::exists(m_boost_path / dep->second))
                        os << split_path(m_boost_path, dep->second);
                    else if(fs::exists(dep->second))
                        os << split_path(fs::path(), dep->second);
                    else
                        os << dep->second.string();
                    if(seen_deps.find(dep->second) != seen_deps.end())
                }
                else
                    os << dep->second.string();
                seen_deps.insert(dep->second);
            }
    }
}
{ 
    os << " <I>(Circular dependency!)</I>";
    break; // circular dependency!!!
}
seen_deps.insert(dep->second);
last_dep = dep;
dep = m_dependencies.find(dep->second);
if((dep == m_dependencies.end()) || (0 == compare_paths(dep->second, last_dep->second)))
    break;
}
    os << "\n";
    ++fi;
} 
    os << "</pre //</BLOCKQUOTE>\n";

os << "</body"></html>\n";

if(!os) 
{ 
    std::string msg("Error writing to ");
    msg += m_dest_path.string();
    msg += ": ";
    std::runtime_error e(msg);
    boost::throw_exception(e);
} 

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This package was debianized by Vladimir Prus <ghost@cs.msu.su> on Wed, 17 July 2002, 19:27:00 +0400.

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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and
Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.
Thomas Funke (thf@zelator.in-berlin.de(?)) and
Brian D. Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and
Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks(agt@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@grucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn’t
made it into the released version of the collector, yet.)
[============================================================================]
Boost.Geometry (aka GGL, Generic Geometry Library)
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- implemented file-format e.g. WKB
- implemented specific strategy or algorithm e.g. intersections
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<section id="date_time.license">
<title>Boost Date-Time Library License</title>
<bridgehead renderas="sect2">Boost Date-Time Library License</bridgehead>
<!--
<ulink url="../../../index.htm">
<imagedata align="left"
format="GIF"
fileref="../../../boost.png"
alt="C++ Boost"/>
</ulink>-->

<para>
The following is the overall license for the boost date_time
library. This notice is found in all source files related to the
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[section:mpl MPL Interoperability]

All the value based traits in this library conform to MPL's requirements for an [Integral Constant type]: that includes a number of rather intrusive workarounds for broken compilers.

Purely as an implementation detail, this means that `__true_type` inherits from [Integral Constant type], `__false_type` inherits from [Integral Constant type], and `__integral_constant<T, v>` inherits from [Integral Constant type].
All the value based traits in this library conform to MPL’s requirements for an integral constant type: that includes a number of rather intrusive workarounds for broken compilers.

Purely as an implementation detail, this means that inherits from a boost/mpl/doc/refmanual/bool.html target="_top" boost::mpl::false_<span class="identifier">true_<span class="identifier">integral_constant.html" title="integral_constant">false_type</span>"</span>

inherits from a boost/mpl/doc/refmanual/bool.html target="_top" boost::mpl::true_<span class="identifier">integral_constant.html" title="integral_constant">true_type</span>"</span>
```cpp
#define BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

#if (defined _MSC_VER) && (_MSC_VER >= 1200)
#  pragma once
#endif

#include <cstddef>

namespace boost {
namespace container {
namespace container_detail {

template <class T, T val>
struct integral_constant
{
  static const T value = val;
  typedef integral_constant<T,val> type;
};

template< bool C_ >
struct bool_ : integral_constant<bool, C_>
{
  static const bool value = C_;  // This line is incorrect.
  operator bool() const { return bool::_value; }  // This line is incorrect.
};

typedef bool_<true> true_;
typedef bool_<false> false_;

typedef true_ true_type;
typedef false_ false_type;

typedef char yes_type;
struct no_type
{
  char padding[8];
};

template <bool B, class T = void>
struct enable_if_c
{
  typedef T type;
};

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {};

```
template <class Cond, class T = void>
struct disable_if : public enable_if_c<!Cond::value, T> {};

template <bool B, class T = void>
struct disable_if_c : public enable_if_c<!B, T> {};

template <class T, class U>
class is_convertible
{
    typedef char true_t;
    class false_t { char dummy[2]; };  
    static true_t dispatch(U);
    static false_t dispatch(...);
    static T trigger();
    public:
        enum { value = sizeof(dispatch(trigger())) == sizeof(true_t) };  
};

template<
    bool C
    , typename T1
    , typename T2
>
struct if_c
{
    typedef T1 type;
};

template<
    typename T1
    , typename T2
>
struct if_c<false,T1,T2>
{
    typedef T2 type;
};

template<
    typename T1
    , typename T2
    , typename T3
>
struct if_
{
    typedef typename if_c<0 != T1::value, T2, T3>::type type;
};
template <class Pair>
struct select1st
//   : public std::unary_function<Pair, typename Pair::first_type>
{
    template<class OtherPair>
    const typename Pair::first_type& operator()(const OtherPair& x) const
    {  return x.first;  }

    const typename Pair::first_type& operator()(const typename Pair::first_type& x) const
    {  return x;  }
};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
//   : public std::unary_function<T,T>
{
    typedef T type;
    const T& operator()(const T& x) const
    { return x; }
};

template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<(S >> 1u)>::value);
};

template<>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
    static const std::size_t value = 0;
};

template <typename T> struct unvoid { typedef T type; }
template <> struct unvoid<void> { struct type {}; }
template <> struct unvoid<const void> { struct type {}; }

}  //namespace container_detail {
}  //namespace container {
}  //namespace boost {
#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
//////////////////////////////////////////////////////////////////////////////
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// http://www.boost.org/LICENSE_1_0.txt)
//
//
//////////////////////////////////////////////////////////////////////////////

#define BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP

#define BOOST_INTERPROCESS_DETAIL_MPL_HPP

#if (defined _MSC_VER) && (_MSC_VER >= 1200)
 # pragma once
#endif

#include <cstddef>

namespace boost {
 namespace interprocess {
 namespace ipcdetail {

 template <class T, T val>
 struct integral_constant {
  static const T value = val;
  typedef integral_constant<T,val> type;
  
  
  
 template< bool C_ >
 struct bool_ : integral_constant<bool, C_> {
  static const bool value = C_;
  
  
  typedef bool_<true>        true_;
  typedef bool_<false>       false_;

  typedef true_  true_type;
  typedef false_ false_type;

  typedef char yes_type;
  struct no_type

  

}
{  char padding[8];}

template <bool B, class T = void>
struct enable_if_c {
  typedef T type;
};

template <class T>
struct enable_if_c<false, T> {};

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {};

template <class Cond, class T = void>
struct disable_if : public enable_if_c<!Cond::value, T> {};

template <class T, class U>
class is_convertible
{
  typedef char true_t;
  class false_t { char dummy[2]; };  
  static true_t dispatch(U);
  static false_t dispatch(...);
  static T trigger();
  public:
    static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);
};

template<
  bool C
 , typename T1
 , typename T2
>
struct if_c
{
  typedef T1 type;
};

template<
  typename T1
 , typename T2
>
struct if_c<false,T1,T2>
{
  typedef T2 type;
};
template<
    typename T1
    , typename T2
    , typename T3
>
struct if_
{
    typedef typename if_c<0 != T1::value, T2, T3>::type type;
};

template <class Pair>
struct select1st
//   : public std::unary_function<Pair, typename Pair::first_type>
{
    template<class OtherPair>
    const typename Pair::first_type& operator()(const OtherPair& x) const
    {  return x.first;   }

    const typename Pair::first_type& operator()(const typename Pair::first_type& x) const
    {  return x;   }
};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
//   : public std::unary_function<T,T>
{
    typedef T type;
    const T& operator()(const T& x) const
    { return x; }
};

template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<(S >> 1u)>::value);
};

template<>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
static const std::size_t value = 0;
};
} //namespace ipcdetail {
} //namespace interprocess {
} //namespace boost {
#endif //#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
/////////////////////////////////////////////////////////////////////////////
//
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//
http://www.boost.org/LICENSE_1_0.txt)
//
//
/////////////////////////////////////////////////////////////////////////////
#ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP
#define BOOST_INTRUSIVE_DETAIL_MPL_HPP
#include <boost/intrusive/detail/config_begin.hpp>
#include <cstddef>
namespace boost {
namespace intrusive {
namespace detail {
typedef char one;
struct two {one _[2];};
template< bool C_ >
struct bool_
{
static const bool value = C_;
};
typedef bool_<true>
typedef bool_<false>

true_;
false_;

typedef true_ true_type;
typedef false_ false_type;
typedef char yes_type;
struct no_type

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1749


{　　char padding[8];　}

template <bool B, class T = void>
struct enable_if_c {
    typedef T type;
};

template <class T>
struct enable_if_c<false, T> {};  

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {};  

template<class F, class Param>
struct apply {
    typedef typename F::template apply<Param>::type type;
};

template <class T, class U>
class is_convertible {
    typedef char true_t;
    class false_t { char dummy[2]; };  
    static true_t dispatch(U);
    static false_t dispatch(...);
    static const T &trigger();

    public:
        static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);
    
};

template<
    bool C    
    , typename T1 
    , typename T2
>
struct if_c {
    typedef T1 type;
};

template<
    typename T1 
    , typename T2
>
struct if_c<false,T1,T2>
typedef T2 type;
};

template<
    typename C
    , typename T1
    , typename T2
>
struct if_
{
    typedef typename if_c<0 != C::value, T1, T2>::type type;
};

template<
    bool C
    , typename F1
    , typename F2
>
struct eval_if_c
    : if_c<C,F1,F2>::type
{
};

template<
    typename C
    , typename T1
    , typename T2
>
struct eval_if
    : if_<C,T1,T2>::type
{
};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
{
    typedef T type;
};

#if defined(BOOST_MSVC) || defined(__BORLANDC_)
#define BOOST_INTRUSIVE_TT_DECL __cdecl
#else
#define BOOST_INTRUSIVE_TT_DECL
#endif
#if defined(_MSC_EXTENSIONS) && !defined(__BORLAND__) && !defined(_WIN64) && !defined(UNDER_CE)
#define BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS
#endif
template <typename T>
struct is_unary_or_binary_function_impl
{  static const bool value = false;  };

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
#endif
#endif // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R>
struct is_unary_or_binary_function_impl<R (*)(...)>
{  static const bool value = true;  };

#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R>
struct is_unary_or_binary_function_impl<R (__stdcall*)()>
{  static const bool value = true;  };

#ifndef _MANAGED

template <typename R>
struct is_unary_or_binary_function_impl<R (__fastcall*)()>
{  static const bool value = true;  };
#endif

template <typename R>
struct is_unary_or_binary_function_impl<R (__cdecl*)()>
{  static const bool value = true;  };

template <typename R>
struct is_unary_or_binary_function_impl<R (__cdecl*)(...)>
{  static const bool value = true;  };
#endif

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
#endif
#endif // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (*)(T0)>
{ static const bool value = true; };

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (*)(T0...)>
{ static const bool value = true; };

#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (__stdcall*)(T0)>  
{ static const bool value = true; };

#ifndef _MANAGED

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (__fastcall*)(T0)>  
{ static const bool value = true; };
#endif

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0)>  
{ static const bool value = true; };

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0...)>
{ static const bool value = true; };

#endif // see boost ticket #4094

// avoid duplicate definitions of is_unary_or_binary_function_impl

#ifndef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (*)(T0, T1)>  
{ static const bool value = true; };

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (*)(T0, T1...)>
{ static const bool value = true; };

#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__stdcall*)(T0, T1)>  
{ static const bool value = true; };

#endif
#ifndef _MANAGED

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__fastcall*)(T0, T1)>
{  static const bool value = true;  };

#endif

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0, T1)>
{  static const bool value = true;  };

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0, T1...)>
{  static const bool value = true;  };

#endif

template <typename T>
struct is_unary_or_binary_function_impl<T&>
{  static const bool value = false;  };

template<typename T>
struct is_unary_or_binary_function
{  static const bool value = is_unary_or_binary_function_impl<T>::value;   };

//boost::alignment_of yields to 10K lines of preprocessed code, so we
//need an alternative

template <typename T> struct alignment_of;

template <typename T>
struct alignment_of_hack
{  char c;
    T t;
    alignment_of_hack();
};

template <unsigned A, unsigned S>
struct alignment_logic
{  static const std::size_t value = A < S ? A : S;
};

template< typename T >
struct alignment_of
{  static const std::size_t value = alignment_logic
    < sizeof(alignment_of_hack<T>) - sizeof(T)
, sizeof(T)
  >::value;
};

template <typename T, typename U>
struct is_same
{
  typedef char yes_type;
  struct no_type
  {
    char padding[8];
  };
};

template <typename V>
static yes_type is_same_tester(V*, V*);
static no_type is_same_tester(...);

static T *t;
static U *u;

  static const bool value = sizeof(yes_type) == sizeof(is_same_tester(t,u));
};

template<typename T>
struct add_const
{  typedef const T type;   };

template<typename T>
struct remove_const
{  typedef  T type;   };

template<typename T>
struct remove_const<const T>
{  typedef const volatile T type;   };

template<typename T>
struct remove_cv
{  typedef T type;   };

template<typename T>
struct remove_cv<const T>
{  typedef const volatile T type;   };

template<typename T>
struct remove_cv<const volatile T>
{  typedef T type;   };

template<typename T>
struct remove_cv<volatile T>
{
    typedef T type;
};

template<class T>
struct remove_reference
{
    typedef T type;
};

template<class T>
struct remove_reference<T&>
{
    typedef T type;
};

template<class Class>
class is_empty_class
{
    template<typename T>
    struct empty_helper_t1 : public T
    {
        empty_helper_t1();
        int i[256];
    };

    struct empty_helper_t2
    { int i[256]; };  

    public:
    static const bool value = sizeof(empty_helper_t1<Class>) == sizeof(empty_helper_t2);
};

template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1 + ls_zeros<(S>>1u)>::value);
};

template<>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
    static const std::size_t value = 0;
1.97 boost-lockfree CentOS7-1-2

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Maybe this should pass?

/*
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 * Boost Software License, Version 1.0. (See accompanying file
 * LICENSE_1_0.txt or copy at http://www.boost.org/LICENSE_1_0.txt)
 */

#include "licence_info.hpp"
#include "bcp_imp.hpp"
#include "fileview.hpp"
#include <fstream>
#include <iomanip>
#include <cstring>
#include <stdexcept>
#include <boost/lexical_cast.hpp>
#include <boost/filesystem/operations.hpp>
#include <boost/throw_exception.hpp>

//
// split_path is a small helper for outputting a path name,
// complete with a link to that path:
//
struct split_path
{
    const fs::path& root;
    const fs::path& file;
    split_path(const fs::path& r, const fs::path& f)
        : root(r), file(f){}
private:
    split_path& operator=(const split_path&);
};

std::ostream& operator << (std::ostream& os, const split_path& p)
{
    os << "<a href="/"" << (p.root / p.file).string() << "]"" << p.file.string() << "]</a>";
    return os;
}
std::string make_link_target(const std::string& s)
{
    // convert an arbitrary string into something suitable
    // for an <a> name:
    std::string result;
    for(unsigned i = 0; i < s.size(); ++i)
    {
        result.append(1, static_cast<std::string::value_type>(std::isalnum(s[i]) ? s[i] : '_'));
    }
    return result;
}

void bcp_implementation::output_license_info()
{
    std::pair<const license_info*, int> licenses = get_licenses();

    std::map<int, license_data>::const_iterator i, j;
    i = m_license_data.begin();
    j = m_license_data.end();

    std::ofstream os(m_dest_path.string().c_str());
    if(!os)
    {
        std::string msg("Error opening ");
        msg += m_dest_path.string();
        msg += " for output."
        std::runtime_error e=msg);
        boost::throw_exception(e);
    }
    os <<
        "<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN">\n"
        "<html>\n"
        "<head>\n"
        "<title>Boost Licence Dependency Information</title>
    if(m_module_list.size() == 1)
    {
        os << " for " "=*"(m_module_list.begin());
    }
    os <<
        "</title>\n"
        "</head>\n"
        "</body>\n"
        "<H1>Boost Licence Dependency Information</H1>
    if(m_module_list.size() == 1)
    {
        os << " for " "=*"(m_module_list.begin());
    }
Contents

## Input Information

```c++
// title:
os << "<h2><a name="input"></a>Input Information</h2>
if(m_scan_mode)
    os << "<p>The following Boost modules were checked: <br/>
std::list<std::string>::const_iterator si = m_module_list.begin();
std::list<std::string>::const_iterator sj = m_module_list.end();
while(si != sj)
    {
    os << *si << "<br/>"
    ++si;
```
The Boost path was: `<code>` << m_boost_path.string() << `</code>`;

//
// extract the boost version number from the boost directory tree,
// not from this app (which may have been built from a previous
// version):
//
fileview version_file(m_boost_path / "boost/version.hpp");
static const boost::regex version_regex("^[[:blank:]]*\#define[[:blank:]]+BOOST_VERSION[[:blank:]]+(\d+)$");
boost::cmatch what;
if(boost::regex_search(version_file.begin(), version_file.end(), what, version_regex))
{
    int version = boost::lexical_cast<int>(what.str(1));
    os << "<p>The Boost version is: " << version / 100000 << "." << version / 100 % 1000 << "." << version % 100
    << " <\p></n";
}

//
// output each license:
//
i = m_license_data.begin();
j = m_license_data.end();
if(!m_bsl_summary_mode)
{
    //
    // start with the summary:
    //
    os << "<a name="summary"></a><h2>Licence Summary</h2>
    while(i != j)
    {
        // title:
        os << "<H3>" << licenses.first[i->first].license_name << "</H3></n";
        // license text:
        os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
        // Copyright holders:
        os << "<p>This license is used by " << i->second.authors.size()
            << " authors and " << i->second.files.size()
            << " files <a href="#" make_link_target(licenses.first[i->first].license_name) << ">
            (see details)</a>";
        os << "</p></BLOCKQUOTE></n";
        ++i;
    }
}
//
// and now the details:
//
i = m_license_data.begin();
j = m_license_data.end();
int license_index = 0;
os << "<a name="details"></a><h2>Licence Details</h2>
while(i != j)
{
    // title:
os << "<H3><A name="" << make_link_target(licenses.first[i->first].license_name) << ">"></a>" << licenses.first[i->first].license_name << "</H3>\n";
    // license text:
os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
    if(!m_bsl_summary_mode || (license_index >= 3))
    {
        // Copyright holders:
os << "<P>\nThis license is used by the following " << i->second.authors.size() << " copyright holders:\n</P>\n<BLOCKQUOTE><P>
std::set<std::string>::const_iterator x, y;
x = i->second.authors.begin();
y = i->second.authors.end();
while(x != y)
{
os << *x << "<BR>\n";
    ++x;
}
os << "</P>\n</BLOCKQUOTE>\n";
    // Files using this license:
os << "<P>
This license applies to the following " << i->second.files.size() << " files:
</P>\n<BLOCKQUOTE><P>
std::set<fs::path, path_less>::const_iterator m, n;
m = i->second.files.begin();
n = i->second.files.end();
while(m != n)
{
os << split_path(m_boost_path, *m) << "<br>\n";
    ++m;
}
os << "</P>\n</BLOCKQUOTE>\n";
}
else
{
os << "<P>
This license is used by " << i->second.authors.size() << " authors (list omitted for brevity).</P>\n"
os << "<P>
This license applies to " << i->second.files.size() << " files (list omitted for brevity).</P>\n";
}
++license_index;
++i;
}
//
// Output list of files not found to be under license control:
The following \texttt{m\_unknown\_licenses.size()} files had no recognisable license information:

\begin{verbatim}
std::set<fs::path, path_less>::const_iterator i2, j2;
i2 = m\_unknown\_licenses.begin();
j2 = m\_unknown\_licenses.end();
while(i2 != j2)
{
    os << split\_path(m\_boost\_path, *i2) << "\n";
    ++i2;
}
\end{verbatim}

The following \texttt{m\_unknown\_authors.size()} files had no recognisable copyright holder:

\begin{verbatim}
while(i2 != j2)
{
    os << split\_path(m\_boost\_path, *i2) << "\n";
    ++i2;
}
\end{verbatim}

The following \texttt{m\_converted\_to\_bsl.size()} files can be automatically converted to the Boost Software License, but require manual verification before they can be committed to CVS:

\begin{verbatim}
typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>
    ::const_iterator conv_iterator;
conv_iterator i = m\_converted\_to\_bsl.begin();
ie = m\_converted\_to\_bsl.end();
int file\_num = 1;
while (i != ie)
{
    os << "[" << file\_num << "] File: <tt>" << split\_path(m\_boost\_path, i->first)
// Output list of files that could be moved over to the Boost Software License
//
os << "<h2><a name="to-bsl"></a>Files that could be converted to the Boost Software License</h2>
"<P>The following " << m_can_migrate_to_bsl.size() << " files could be manually converted to the Boost
Software License, but have not yet been:</P><BLOCKQUOTE><P>
 i2 = m_can_migrate_to_bsl.begin();
j2 = m_can_migrate_to_bsl.end();
while(i2 != j2)
{
   os << split_path(m_boost_path, *i2) << "</p></BLOCKQUOTE>";
//
// Output list of files that can not be moved over to the Boost Software License
//
os << "<h2><a name="not-to-bsl"></a>Files that cannot be converted to the Boost Software License</h2>
"<P>The following " << m_cannot_migrate_to_bsl.size() << " files cannot be converted to the Boost Software
License because we need the permission of more authors:</P><BLOCKQUOTE><P>
 i2 = m_cannot_migrate_to_bsl.begin();
j2 = m_cannot_migrate_to_bsl.end();
while(i2 != j2)
{
   os << split_path(m_boost_path, *i2) << "</p></BLOCKQUOTE>";
//
// Output list of authors that we need permission for to move to the BSL
//
os << "<h2><a name="need-bsl-authors"></a>Authors we need for the BSL</h2>
"<P>Permission of the following authors is needed before we can convert to the Boost Software License. The
list of authors that have given their permission is contained in <code>more/blanket-
permission.txt</code>:</P><BLOCKQUOTE><P>
 std::copy(m_authors_for_bsl_migration.begin(), m_authors_for_bsl_migration.end(),
   std::ostream_iterator<std::string>(os, "<br>"));
   os << "</p></BLOCKQUOTE>";
//
// output a table of copyright information:
os << "<H2><a name="copyright"></a>Copyright Holder Information</H2><table border="1">
std::map<std::string, std::set<fs::path, path_less> >::const_iterator ad, ead;
ad = m_author_data.begin();
ead = m_author_data.end();
while(ad != ead)
{
    os << "<tr><td>" << ad->first << "</td><td>
std::set<fs::path, path_less>::const_iterator fi, efi;
fi = ad->second.begin();
efi = ad->second.end();
while(fi != efi)
{
    os << split_path(m_boost_path, *fi) << " ";
    ++fi;
}
os << "</td></tr>
++ad;
}
os << "</table>";

// output file dependency information:

os << "<H2><a name="depend"></a>File Dependency Information</H2><BLOCKQUOTE><pre>
std::map<fs::path, fs::path, path_less>::const_iterator dep, last_dep;
std::set<fs::path, path_less>::const_iterator fi, efi;
fi = m_copy_paths.begin();
efi = m_copy_paths.end();
// if in summary mode, just figure out the "bad" files and print those only:
std::set<fs::path, path_less> bad_paths;
if(m_bsl_summary_mode)
{
    std::map<fs::path, std::pair<std::string, std::string>, path_less>::const_iterator conv_iterator;
    conv_iterator i = m_converted_to_bsl.begin(),
                      ie = m_converted_to_bsl.end();
    while(i != ie)
    {
        bad_paths.insert(i->first);
        ++i;
    }
    fi = bad_paths.begin();
efi = bad_paths.end();
os << "<P>For brevity, only files not under the BSL are shown</P>\n";
}
while(fi != efi)
{
    os << split_path(m_boost_path, *fi);
    dep = m_dependencies.find(*fi);
    last_dep = m_dependencies.end();
    std::set<fs::path, path_less> seen_deps;
    if (dep != last_dep)
        while(true)
        {
            os << " -> ";
            if(fs::exists(m_boost_path / dep->second))
                os << split_path(m_boost_path, dep->second);
            else if(fs::exists(dep->second))
                os << split_path(fs::path(), dep->second);
            else
                os << dep->second.string();
            if(seen_deps.find(dep->second) != seen_deps.end())
                {
                    os << " <I>(Circular dependency!)</I>";
                    break; // circular dependency!!!
                }
            seen_deps.insert(dep->second);
            last_dep = dep;
            dep = m_dependencies.find(dep->second);
            if((dep == m_dependencies.end()) || (0 == compare_paths(dep->second, last_dep->second)))
                break;
        }
    os << "\n";
    ++fi;
}
os << "</pre></BLOCKQUOTE>\n";
os << "</body></html>";

if(!os)
{
    std::string msg("Error writing to ");
    msg += m_dest_path.string();
    msg += ":.
    std::runtime_error e(msg);
    boost::throw_exception(e);
}
}
This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson (jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?) ) and Brian D. Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Deteufs(deteufs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(agic@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.  
David Chase, then at Olivetti Research, suggested several improvements.  
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the 
code to save and print call stacks for leak detection on a SPARC.  
Jesse Hull and John Ellis supplied the C++ interface code.  
Zhong Shao performed much of the experimentation that led to the 
current typed allocation facility.  (His dynamic type inference code hasn’t 
made it into the released version of the collector, yet.)  

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//
//
///

#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
#define BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

#if (defined _MSC_VER) && (_MSC_VER >= 1200)
#pragma once
#endif

#include <cstddef>

namespace boost {


namespace container {
namespace container_detail {

    template <class T, T val>
    struct integral_constant
    {
        static const T value = val;
        typedef integral_constant<T,val> type;
    };

    template< bool C_
    struct bool_ : integral_constant<bool, C_>
    {
        static const bool value = C_; 
        operator bool() const { return bool_::value; }
    };

    typedef bool_<true>        true_;
    typedef bool_<false>       false_;

    typedef true_  true_type;
    typedef false_ false_type;

    typedef char yes_type;
    struct no_type
    {
        char padding[8];
    };

    template <bool B, class T = void>
    struct enable_if_c
    { 
        typedef T type;
    };

    template <class T>
    struct enable_if_c<bool, T> {}

    template <class Cond, class T = void>
    struct enable_if : public enable_if_c<Cond::value, T> {}

    template <class Cond, class T = void>
    struct disable_if : public enable_if_c<!Cond::value, T> {}

    template <bool B, class T = void>
    struct disable_if_c : public enable_if_c<!B, T> {}

    template <class T, class U>
    class is_convertible
typedef char true_t;
class false_t { char dummy[2]; }
static true_t dispatch(U);
static false_t dispatch(...);
static T trigger();
public:
enum { value = sizeof(dispatch(trigger())) == sizeof(true_t) };
};

template<
  bool C
 , typename T1
 , typename T2
>
struct if_c
{
  typedef T1 type;
};

template<
  typename T1
 , typename T2
>
struct if_c>false,T1,T2>
{
  typedef T2 type;
};

template<
  typename T1
 , typename T2
 , typename T3
>
struct if_
{
  typedef typename if_c<0 != T1::value, T2, T3>::type type;
};

template <class Pair>
struct select1st
// : public std::unary_function<Pair, typename Pair::first_type>
{
  template<class OtherPair>
  const typename Pair::first_type& operator()(const OtherPair& x) const
  { return x.first; }
const typename Pair::first_type& operator()(const typename Pair::first_type& x) const  
{  return x;  }
);

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
//   : public std::unary_function<T,T>
{
    typedef T type;
    const T& operator()(const T& x) const
    { return x; }
};

template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<(S >> 1u)>::value);
};

template<>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
    static const std::size_t value = 0;
};

template<typename T> struct unvoid { typedef T type; };  
template <> struct unvoid<void> { struct type { }; };  
template <> struct unvoid<const void> { struct type { }; };
#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
#define BOOST_INTERPROCESS_DETAIL_MPL_HPP

#endif

namespace boost {
namespace interprocess {
namespace ipcdetail {

template <class T, T val>
struct integral_constant
{
    static const T value = val;
    typedef integral_constant<T,val> type;
};

template< bool C_ >
struct bool_ : integral_constant<bool, C_>
{
    static const bool value = C_; 
};

typedef bool_<true>        true_;
typedef bool_<false>       false_;
typedef true_  true_type;
typedef false_ false_type;

typedef char yes_type;
struct no_type
{
    char padding[8];
};

template <bool B, class T = void>
struct enable_if_c 
{
    typedef T type;
};
template <class T>
struct enable_if_c<false, T> {}
;

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {}
;

template <class Cond, class T = void>
struct disable_if : public enable_if_c<!Cond::value, T> {}
;

template <class T, class U>
class is_convertible
{

typedef char true_t;

class false_t { char dummy[2]; };

static true_t dispatch(U);
static false_t dispatch(...);
static T trigger();

public:
static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);
};

template<
    bool C
 , typename T1
 , typename T2
>
struct if_c
{
    typedef T1 type;
};

template<
    typename T1
 , typename T2
>
struct if_c<false,T1,T2>
{
    typedef T2 type;
};

template<
    typename T1
 , typename T2
 , typename T3
>
struct if_
{
    typedef typename if_c<0 != T1::value, T2, T3>::type type;
}
template <class Pair>
struct select1st
//@ : public std::unary_function<Pair, typename Pair::first_type>
{
    template<class OtherPair>
    const typename Pair::first_type& operator()(const OtherPair& x) const
    {  return x.first;  }

    const typename Pair::first_type& operator()(const typename Pair::first_type& x) const
    {  return x;  }
};

//@ identity is an extension: it is not part of the standard.
template <class T>
struct identity
//@ : public std::unary_function<T,T>
{
    typedef T type;
    const T& operator()(const T& x) const
    {  return x;  }
};

template<std::size_t S>
struct ls_zeros
{
   static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<(S >> 1u)>::value);
};

template<>
struct ls_zeros<0>
{
   static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
   static const std::size_t value = 0;
};

}  //namespace ipcdetail {
}  //namespace interprocess {
}  //namespace boost {

#if !defined BOOST_INTERPROCESS_DETAIL_MPL_HPP
BOOST_INTRUSIVE_DETAIL_MPL_HPP

#include <boost/intrusive/detail/config_begin.hpp>
#include <cstddef>
namespace boost {
namespace intrusive {
namespace detail {

typedef char one;
struct two { one_ [2];};

template < bool C_> 
struct bool_ 
{ 
 static const bool value = C_; 
};

typedef bool_<true> true_;
typedef bool_<false> false_;

typedef true_ true_type;
typedef false_ false_type;

typedef char yes_type;
struct no_type 
{ 
 char padding[8]; 
};

template < bool B, class T = void>
struct enable_if_c 
{ 
 typedef T type; 
};
template <class T>
struct enable_if_c<false, T> {};

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {};

template<class F, class Param>
struct apply
{
  typedef typename F::template apply<Param>::type type;
};

template <class T, class U>
class is_convertible
{
  typedef char true_t;
  class false_t { char dummy[2]; }; 
  static true_t dispatch(U);
  static false_t dispatch(...);
  static const T &trigger();
  public:
  static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);
};

template<
   bool C
  , typename T1
  , typename T2
  >
struct if_c
{
  typedef T1 type;
};

template<
  typename T1
  , typename T2
  >
struct if_c<false,T1,T2>
{
  typedef T2 type;
};

template<
  typename C
  , typename T1
  , typename T2
  >
struct if_
{
    typedef typename if_<0 != C::value, T1, T2>::type type;
};

template<
    bool C
    , typename F1
    , typename F2
>
struct eval_if_c
    : if_<C,F1,F2>::type
{};

template<
    typename C
    , typename T1
    , typename T2
>
struct eval_if
    : if_<C,T1,T2>::type
{};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
{
    typedef T type;
};

#if defined(BOOST_MSVC) || defined(__BORLANDC_)
#define BOOST_INTRUSIVE_TT_DECL __cdecl
#else
#define BOOST_INTRUSIVE_TT_DECL
#endif
#if defined(_MSC_EXTENSIONS) && !defined(__BORLAND__) && !defined(_WIN64) && !defined(UNDER_CE)
#define BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS
#endif

template <typename T>
struct is_unary_or_binary_function_impl
{  static const bool value = false;  };

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
#ifdef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS
#undef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS
#endif
template <typename R>
struct is_unary_or_binary_function_impl<R (*)(())>
{  static const bool value = true;  };

template <typename R>
struct is_unary_or_binary_function_impl<R (*)(...)>
{  static const bool value = true;  };

#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R>
struct is_unary_or_binary_function_impl<R (__stdcall*)(())>
{  static const bool value = true;  };

#ifndef _MANAGED

template <typename R>
struct is_unary_or_binary_function_impl<R (__fastcall*)(())>
{  static const bool value = true;  };

#endif

template <typename R>
struct is_unary_or_binary_function_impl<R (__cdecl*)(...)>
{  static const bool value = true;  };

#endif

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
#ifndef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (*)(T0)>
{  static const bool value = true;  };

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (*)(T0...)>
{  static const bool value = true;  };

#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0>

struct is_unary_or_binary_function_impl<R (__stdcall*)(T0)>
{  static const bool value = true;  };
#endif

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (__fastcall*)(T0)>
{  static const bool value = true;  };
#endif

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0)>
{  static const bool value = true;  };
template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0...)>
{  static const bool value = true;  };
#endif

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
#ifndef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (*)(T0, T1)>
{  static const bool value = true;  };
template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (*)(T0, T1...)>
{  static const bool value = true;  };
#endif // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

// else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__stdcall*)(T0, T1)>
{  static const bool value = true;  };
#endif _MANAGED

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__fastcall*)(T0, T1)>
{  static const bool value = true;  };
#endif

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0, T1)>
{  static const bool value = true;  };

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0, T1...)
{  static const bool value = true;  };
#endif

template <typename T>
struct is_unary_or_binary_function_impl<T&>
{  static const bool value = false;  };

template<typename T>
struct is_unary_or_binary_function
{  static const bool value = is_unary_or_binary_function_impl<T>::value;  };

//boost::alignment_of yields to 10K lines of preprocessed code, so we
//need an alternative

template <typename T> struct alignment_of;

template <typename T>
struct alignment_of_hack
{  char c;  T t;  alignment_of_hack();  };

template< unsigned A, unsigned S>
struct alignment_logic
{  static const std::size_t value = A < S ? A : S;  };

template< typename T >
struct alignment_of
{  static const std::size_t value = alignment_logic
    < sizeof(alignment_of_hack<T>) - sizeof(T)
    , sizeof(T)
    >::value;  };

template <typename T, typename U>
struct is_same
{  typedef char yes_type;
    struct no_type
{  
    char padding[8];
};

template <typename V>
static yes_type is_same_tester(V*, V*);
static no_type is_same_tester(...);

static T *t;
static U *u;

static const bool value = sizeof(yes_type) == sizeof(is_same_tester(t,u));
};

template<typename T>
struct add_const
  {  typedef const T type;  }
;

template<typename T>
struct remove_const
  {  typedef T type;  }
;

template<typename T>
struct remove_const<const T>
  {  typedef T type;  }
;

template<typename T>
struct remove_cv
  {  typedef T type;  }
;

template<typename T>
struct remove_cv<const T>
  {  typedef T type;  }
;

template<typename T>
struct remove_cv<const volatile T>
  {  typedef T type;  }
;

template<typename T>
struct remove_cv<volatile T>
  {  typedef T type;  }
;

template<class T>
struct remove_reference
  {
    typedef T type;
  };

template<class T>
struct remove_reference<T&>
{
  typedef T type;
};

template<class Class>
class is_empty_class
{
  template <typename T>
  struct empty_helper_t1 : public T
  {
    empty_helper_t1();
    int i[256];
  };

  struct empty_helper_t2
  { int i[256]; }; 

  public:
  static const bool value = sizeof(empty_helper_t1<Class>) == sizeof(empty_helper_t2);
};

template<std::size_t S>
struct ls_zeros
{
  static const std::size_t value = (S & std::size_t(1)) ? 0 : (1 + ls_zeros<(S>>1u)>::value);
};

template<>
struct ls_zeros<0>
{
  static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
  static const std::size_t value = 0;
};

//namespace detail
} //namespace intrusive
} //namespace boost

#include <boost/intrusive/detail/config_end.hpp>

#endif //BOOST_INTRUSIVE_DETAIL_MPL_HPP
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* 
Index: boost/mpl/print.hpp

--- boost/mpl/print.hpp(revision 83411)
+++ boost/mpl/print.hpp(working copy)
@@ -45,22 +45,21 @@
 : mpl::identity<T>
 #if defined(__MWERKS__)
 , aux::print_base
-#endif
+#endif

{ #if defined(BOOST_MSVC)
 enum { n = sizeof(T) + -1 }; 
#endif
} #if defined(__MWERKS__) 
 , aux::print_base
-#endif
  
# ifdef defined(BOOST_MSVC) 
 enum { n = sizeof(T) + -1 }; 
# endif 
#else 
-    enum { n = sizeof(T) > -1 }; #if defined(__EDG_VERSION__) 
-        aux::dependent_unsigned<T>::value > -1 
-    #else 
-        sizeof(T) > -1 
-    #endif 
-    if defined(__MWERKS__) 
-        sizeof(T) > -1 
-    # endif 
-    void f(int);
-#else 
-    enum { n = sizeof(T) > -1 }; #if defined(__EDG_VERSION__) 
-        aux::dependent_unsigned<T>::value > -1 
-    #else 
-        sizeof(T) > -1 
-    #endif 
+    enum { n = aux::dependent_unsigned<T>::value > -1 }; 
+    #ifdef defined(BOOST_GCC) 
+        enum { n1 }; 
+    #endif 
+    #ifdef defined(BOOST_MSVC) 
+        enum { n2 }; 
+    #else 
+        enum { n = sizeof(T) > -1 }; 
+    #endif 

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<link rel="up" href="../index.html" title="Chapter 1. Boost.TypeTraits">
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<hr>
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<a accesskey="p" href="intrinsics.html"><img src="/doc/src/images/prev.png" alt="Prev"></a><a accesskey="u" href="../index.html"><img src="/doc/src/images/up.png" alt="Up"></a><a accesskey="h" href="../index.html"><img src="/doc/src/images/home.png" alt="Home"></a><a accesskey="n" href="examples.html"><img src="/doc/src/images/next.png" alt="Next"></a>
</div>
<div class="section boost_typetraits_mpl">
<div class="titlepage">
<div><div><h2 class="title" style="clear: both">
<a name="boost_typetraits.mpl"></a><a class="link" href="mpl.html" title="MPL Interoperability">MPL Interoperability</a>
</h2></div></div></div>
<p>All the value based traits in this library conform to MPL’s requirements for an integral constant type: that includes a number of rather intrusive workarounds for broken compilers.
</p>
<p>Purely as an implementation detail, this means that true_type inherits from bool.</p>
</div>
</body>
</html>
title="integral_constant">false_type</a></code>

inherits from &lt;a href="../../../../libs/mpl/doc/refmanual/bool.html" target="_top"&gt;&lt;code
class="computeroutput"><span class="identifier">boost</span>&lt;/span&gt;&lt;span class="special">::</span>&lt;span
class="identifier">mpl</span>&lt;/span&gt;&lt;span class="special">::</span>&lt;span
class="identifier">false_</span>&lt;/span&gt;&lt;/code&gt;&lt;/a&gt;,  
and &lt;code class="computeroutput"><a class="link" href="reference/integral_constant.html"
title="integral_constant">integral_constant&lt;/a&gt;&lt;span class="special">::</span>&lt;span
class="identifier">boost</span>&lt;/span&gt;&lt;span class="special">::</span>&lt;span
class="identifier">integral_c</span>&lt;/span&gt;&lt;span class="special">::</span>&lt;span
class="identifier">T</span>&lt;/span&gt;&lt;span class="special">::</span>&lt;span
class="identifier">v</span>&lt;/span&gt;&lt;/code&gt;

inherits from &lt;a href="../../../../libs/mpl/doc/refmanual/integral-c.html" target="_top"&gt;&lt;code
class="computeroutput"><span class="identifier">boost</span>&lt;/span&gt;&lt;span class="special">::</span>&lt;span
class="identifier">mpl</span>&lt;/span&gt;&lt;span class="special">::</span>&lt;span
class="identifier">integral_c</span>&lt;/span&gt;&lt;span class="special">::</span>&lt;span
class="identifier">T</span>&lt;/span&gt;&lt;span class="special">::</span>&lt;span
class="identifier">v</span>&lt;/span&gt;&lt;/code&gt;

(provided &lt;code class="computeroutput">T</code> is not &lt;code
class="computeroutput">bool</code>)

&lt;/p&gt;

&lt;/div&gt;

&lt;table xmlns:rev="http://www.cs.rpi.edu/~gregod/boost/tools/doc/revision" width="100%"&gt;&lt;tr&gt;
&lt;td align="left"&gt;&lt;/td&gt;

&lt;td align="right"&gt;&lt;div class="copyright-footer">Copyright &amp;#169; 2000, 2011 Adobe Systems Inc, David
Abrahams,
Frederic Bron, Steve Cleary, Beman Dawes, Aleksey Gurtovoy, Howard Hinnant,
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Ottosen, Roman Perepelitsa, Robert Ramey, Jeremy Siek, Robert Stewart and Steven
Watanabe&lt;p&gt;
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target="_top"&gt;http://www.boost.org/LICENSE_1_0.txt&lt;/a&gt;)
&lt;/p&gt;
&lt;/div&gt;&lt;/td&gt;
&lt;/tr&gt;&lt;/table&gt;

&lt;hr&gt;

&lt;div class="spirit-nav"&gt;
&lt;a accesskey="p" href="intrinsics.html"&gt;&lt;img src="../../../../doc/src/images/prev.png" alt="Prev"&gt;&lt;a accesskey="u" href="../index.html"&gt;&lt;img src="../../../../doc/src/images/last.png" alt="Up"&gt;&lt;a accesskey="h" href="../index.html"&gt;&lt;img src="../../../../doc/src/images/home.png" alt="Home"&gt;&lt;a accesskey="n" href="examples.html"&gt;&lt;img src="../../../../doc/src/images/next.png" alt="Next"&gt;&lt;/a&gt;
&lt;/div&gt;
&lt;/body&gt;
&lt;/html&gt;

[/
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]

[section:mpl MPL Interoperability]
All the value based traits in this library conform to MPL's requirements for an [Integral Constant type][1]: that includes a number of rather intrusive workarounds for broken compilers.

Purely as an implementation detail, this means that `__true_type` inherits from `boost::mpl::true_`, `__false_type` inherits from `boost::mpl::false_`, and `__integral_constant<T, v>` inherits from `boost::mpl::integral_c<T,v>` (provided `T` is not `bool`)

[endsect]

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---

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</para>
<!--hr / -->
<ulink url="mailto:jeff@crystalclearsoftware.com">Jeff Garland</ulink>
&amp;#169; 2000-2002
</section>

1.98 boost-math 1.53.0-27.el7

1.98.1 Available under license:

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// split_path is a small helper for outputting a path name,  
// complete with a link to that path:  
//
struct split_path  
{
    const fs::path& root;
    const fs::path& file;
    split_path(const fs::path& r, const fs::path& f)
        : root(r), file(f){}
private:
    split_path& operator=(const split_path&);
};

std::ostream& operator<<(std::ostream& os, const split_path& p)
{
    os << "<a href=" << (p.root / p.file).string() << ">">" << p.file.string() << "</a>";
    return os;
}

std::string make_link_target(const std::string& s)
{
    // convert an arbitrary string into something suitable
    // for an <a> name:
    std::string result;
    for(unsigned i = 0; i < s.size(); ++i)
    {
        result.append(1, static_cast<std::string::value_type>(std::isalnum(s[i]) ? s[i] : '_'));
    }
    return result;
}

void bcp_implementation::output_license_info()
{
    std::pair<const license_info*, int> licenses = get_licenses();

    std::map<int, license_data>::const_iterator i, j;
    i = m_license_data.begin();
    j = m_license_data.end();
std::ofstream os(m_dest_path.string().c_str());
if(!os)
{
    std::string msg("Error opening ");
    msg += m_dest_path.string();
    msg += " for output.";
    std::runtime_error e(msg);
    boost::throw_exception(e);
}

os <<
    "<!DOCTYPE HTML PUBLIC ">-//W3C//DTD HTML 4.0 Transitional//EN"">\n"
    "<html>
    "<head>
    "<title>Boost Licence Dependency Information</title>
    if(m_module_list.size() == 1)
    {
    os << " for ": " 
    } 
    if(!m_bsl_summary_mode)
    os << "<a href="#summary">Licence Summary</a>
    os << "<a href="#files">Files with no recognised license</a>
    os << "<a href="#authors">Files with no recognised copyright holder</a>
    if(!m_bsl_summary_mode)
    {
os <<
"Moving to the Boost Software License...
" << a href="#bsl-converted">Files that can be automatically converted to the Boost Software License</a>
" << a href="#to-bsl">Files that can be manually converted to the Boost Software License</a>
" << a href="#not-to-bsl">Files that can <b>NOT</b> be moved to the Boost Software License</a>
" << a href="#need-bsl-authors">Authors we need to move to the Boost Software License</a>
" << a href="#copyright">Copyright Holder Information</a>
";
}

os <<
"<a href="#depend">File Dependency Information</a>
" << 

//
// input Information:
//
if(m_scan_mode)
    os << "<a name="input"></a><h2>Input Information</h2>
" << 
 os << "The following files were scanned for boost dependencies:<BR>
";
else
    os << "The following Boost modules were checked:<BR>
";

std::list<
    std::string>::const_iterator si = m_module_list.begin();
std::list<
    std::string>::const_iterator sj = m_module_list.end();
while(si != sj)
{
    os << *si << "<BR>
";
    ++si;
}

os << "The Boost path was: <code>" << m_boost_path.string() << "</code>
";

//
// extract the boost version number from the boost directory tree,
// not from this app (which may have been built from a previous
// version):
//
fileview version_file(m_boost_path / "boost/version.hpp");
static const boost::regex version_regex(^
    "\#define BOOST_VERSION\d+"
); boost::cmatch what;
if(boost::regex_search(version_file.begin(), version_file.end(), what, version_regex))
{
    int version = boost::lexical_cast<int>(what.str(1));
    os << "The Boost version is: " << version / 100000 << "." << version / 100 % 100 << ".%" << version % 100 << "</P>
";
}

//
// output each license:
//
i = m_license_data.begin();
j = m_license_data.end();
if(!m_bsl_summary_mode)
{
    // start with the summary:
    //
    os << "<a name="summary"></a><h2>Licence Summary</h2>\n";
    while(i != j)
    {
        // title:
        os << "<H3>" << licenses.first[i->first].license_name << "</H3>\n";
        // license text:
        os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
        // Copyright holders:
        os << "<P>" << licenses.first[i->first].license_text << "</P>";
        ++i;
    }
    // and now the details:
    //
    i = m_license_data.begin();
j = m_license_data.end();
    int license_index = 0;
    os << "<a name="details"></a><h2>Licence Details</h2>\n";
    while(i != j)
    {
        // title:
        os << "<H3>" "
" << licenses.first[i->first].license_name << "</H3>\n";
        // license text:
        os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
        if(!m_bsl_summary_mode || (license_index >= 3))
        {
            // Copyright holders:
            os << "<P>" << licenses.first[i->first].license_text << "</P>";
            std::set<std::string>::const_iterator x, y;
            x = i->second.authors.begin();
y = i->second.authors.end();
            while(x != y)
            {
                //
            }
        }
Files using this license:

// Files using this license:

// Output list of files not found to be under license control:
//
// Output list of files with no found copyright holder:
//

while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "<br>
    ++i2;
}

os << "</p></BLOCKQUOTE>";
if(!m_bsl_summary_mode)
{
    //
    // Output list of files that have been moved over to the Boost
    // Software License, along with enough information for human
    // verification.
    //
    os << "<h2><a name="bsl-converted"></a>Files that can be automatically converted to the Boost Software
    License</h2>
    " << "<p>The following " << m_converted_to_bsl.size() << " files can be automatically converted to the Boost Software License, but require manual verification before they can be committed to CVS:</p><br>
    if (!m_converted_to_bsl.empty())
    {
        typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>
::const_iterator conv_iterator;
        conv_iterator i = m_converted_to_bsl.begin(),
        ie = m_converted_to_bsl.end();
        int file_num = 1;
        while (i != ie)
        {
            os << "<P>" << file_num << " File: <tt>" << split_path(m_boost_path, i->first)
            << "<br>\n<table border="1"">\n<tr><td>\n<tr><pre>
    " << i->second.first << "</pre></td><td>\n    " << i->second.second << "</pre></td><tr><td>\n    ";
    ++i;
    ++file_num;
        }
    }
    //
    // Output list of files that could be moved over to the Boost Software License
    //
    os << "<h2><a name="to-bsl"></a>Files that could be converted to the Boost Software License</h2>
    " << "<p>The following " << m_can_migrate_to_bsl.size() << " files could be manually converted to the Boost Software License, but have not yet been:</p><br>
    i2 = m_can_migrate_to_bsl.begin();
    j2 = m_can_migrate_to_bsl.end();
    while(i2 != j2)
    {
        os << split_path(m_boost_path, *i2) << "<br>\n    ++i2;
    }
    os << "</p></BLOCKQUOTE>";
// Output list of files that can not be moved over to the Boost Software License

//
//</h2><a name="not-to-bsl"></a>Files that can NOT be converted to the Boost Software License

"<p>The following " << m_cannot_migrate_to_bsl.size() << " files cannot be converted to the Boost Software License because we need the permission of more authors:

// Output list of authors that we need permission for to move to the BSL

//</p><blockquote>

// output a table of copyright information:

//</table>

</h2><table border="1">

//<tr><td>"<tr><td>" << ad->first << " ";
std::set<fs::path, path_less>::const_iterator fi, efi;
fi = ad->second.begin();
efi = ad->second.end();
while(fi != efi)
{
    os << split_path(m_boost_path, *fi) << " ";
    ++fi;
}
os << "</td><td>";</std::set<fs::path, path_less>::const_iterator fi, efi;
fi = ad->second.begin();
efi = ad->second.end();
while(fi != efi)
{
    os << split_path(m_boost_path, *fi) << " ";
    ++fi;
}
os << "</td><td>

</table>

}"
// output file dependency information:
//
// os << "<H2><a name="depend"></a>File Dependency Information</H2><BLOCKQUOTE><pre>
std::map<fs::path, fs::path, path_less>::const_iterator dep, last_dep;
std::set<fs::path, path_less>::const_iterator fi, efi;
fi = m_copy_paths.begin();
efi = m_copy_paths.end();
// if in summary mode, just figure out the "bad" files and print those only:
std::set<fs::path, path_less> bad_paths;
if(m_bsl_summary_mode)
{
    bad_paths.insert(m_unknown_licenses.begin(), m_unknown_licenses.end());
    bad_paths.insert(m_unknown_authors.begin(), m_unknown_authors.end());
    bad_paths.insert(m_can_migrate_to_bsl.begin(), m_can_migrate_to_bsl.end());
    bad_paths.insert(m_cannot_migrate_to_bsl.begin(), m_cannot_migrate_to_bsl.end());
    typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>::const_iterator conv_iterator;
    conv_iterator i = m_converted_to_bsl.begin(), ie = m_converted_to_bsl.end();
    while(i != ie)
    {
        bad_paths.insert(i->first);
        ++i;
    }
    fi = bad_paths.begin();
efi = bad_paths.end();
os << "<P>For brevity, only files not under the BSL are shown</P>\n";
}
while(fi != efi)
{
    os << split_path(m_boost_path, *fi);
    dep = m_dependencies.find(*fi);
    last_dep = m_dependencies.end();
    std::set<fs::path, path_less> seen_deps;
    if (dep != last_dep)
      while(true)
      {
        os << " -> ";
        if(fs::exists(m_boost_path / dep->second))
          os << split_path(m_boost_path, dep->second);
        else if(fs::exists(dep->second))
          os << split_path(fs::path(), dep->second);
        else
          os << dep->second.string();
        if(seen_deps.find(dep->second) != seen_deps.end())
          {
os << " <I>(Circular dependency!)</I>");
break; // circular dependency!!!
}
seen_deps.insert(dep->second);
last_dep = dep;
dep = m_dependencies.find(dep->second);
if((dep == m_dependencies.end()) || (0 == compare_paths(dep->second, last_dep->second))
break;
}
os << "\n";
++fi;
}

os << "</pre></BLOCKQUOTE>\n"

os << "</body></html>\n"

if(!os)
{
    std::string msg("Error writing to ");
    msg += m_dest_path.string();
    msg += ".
    std::runtime_error e(msg);
    boost::throw_exception(e);
}

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This is an attempt to acknowledge early contributions to the garbage
collector. Later contributions should instead be mentioned in
README.changes.

HISTORY -

Early versions of this collector were developed as a part of research
projects supported in part by the National Science Foundation
and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for
the Russell programming language implementation. The first version of the
garbage collector was written primarily by Al Demers. It was then refined
and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U.,
the University of Washington, Rice University (where it was first used for
C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant
contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in
README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser.
The Encore Multimax modifications were supplied by
Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely
due to Vernon Lee, on machines made available to Rice by IBM.
Much of the HP specific code and a number of good suggestions for improving the
generic code are due to Walter Underwood.
Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.
Al Dosser (dossier@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk)
subsequently provided updates and information on variation between ULTRIX
systems. Parag Patel (parag@netcom.com) supplied the A/UX code.
Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and
Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.
Thomas Funke (thf@zelator.in-berlin.de(?)) and
Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and
Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks(agt@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn’t
made it into the released version of the collector, yet.)

Boost.Geometry (aka GGL, Generic Geometry Library)

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<section id="date_time.license">
<title>Boost Date-Time Library License</title>
<bridgehead renderas="sect2">Boost Date-Time Library License</bridgehead>
<!--
<ulink url="../..//index.htm">
<iimagedata align="left"
  format="GIF"
  fileref="../..//boost.png"
  alt="C++ Boost" />
</ulink>->

<para>
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</para>
All the value based traits in this library conform to MPL’s requirements for an Integer Constant type: that includes a number of rather intrusive workarounds for broken compilers.

Purely as an implementation detail, this means that `__true_type` inherits from `boost::mpl::true_`, `__false_type` inherits from `boost::mpl::false_`, and `__integral_constant<T, v>` inherits from `boost::mpl::integral_c<T,v>` (provided ‘T’ is not `bool`)

[endsect]
All the value based traits in this library conform to MPL’s requirements for an Integral Constant type: that includes a number of rather intrusive workarounds for broken compilers.

Purely as an implementation detail, this means that `<code class="computeroutput">true_type</code>` inherits from `<code class="computeroutput">boost::mpl::true_</code>`, `<code class="computeroutput">false_type</code>` inherits from `<code class="computeroutput">boost::mpl::false_</code>`, and `<code class="computeroutput">integral_constant</code>` inherits from `<code class="computeroutput">boost::mpl::integral_c</code>`.
#if (defined _MSC_VER) && (_MSC_VER >= 1200)
#  pragma once
#endif

#include <cstddef>

namespace boost {
    namespace container {
        namespace container_detail {

            template <class T, T val>
            struct integral_constant {
                static const T value = val;
                typedef integral_constant<T,val> type;
            };

            template< bool C_ >
            struct bool_ : integral_constant<bool, C_> {
                static const bool value = C_; 
                operator bool() const { return bool_::value; } 
            };

            typedef bool_<true>        true_;
            typedef bool_<false>       false_;

            typedef true_  true_type;
            typedef false_ false_type;

            typedef char yes_type;
            struct no_type {
                char padding[8];
            };

            template <bool B, class T = void>
            struct enable_if_c { 
                typedef T type;
            };

            template <class T>
            struct enable_if_c<false, T> {
            };

            template <class Cond, class T = void>
            struct enable_if : public enable_if_c<Cond::value, T> {
            };

        } 
    } 
} 

namespace boost {
    namespace container {
    } 
} 

template <class Cond, class T = void>
struct disable_if : public enable_if<!Cond::value, T> {}

template <bool B, class T = void>
struct disable_if_c : public enable_if<!B, T> {}

template <class T, class U>
class is_convertible
{
  typedef char true_t;
  class false_t { char dummy[2]; }; static true_t dispatch(U);
  static false_t dispatch(...);
  static T trigger();
public:
  enum { value = sizeof(dispatch(trigger())) == sizeof(true_t) };
};

template<
  bool C
 , typename T1
 , typename T2
>
struct if_c
{
  typedef T1 type;
};

template<
  typename T1
 , typename T2
>
struct if_c<false,T1,T2>
{
  typedef T2 type;
};

template<
  typename T1
 , typename T2
 , typename T3
>
struct if_
{
  typedef typename if_c<0 != T1::value, T2, T3>::type type;
};
template <class Pair>
struct select1st
// : public std::unary_function<Pair, typename Pair::first_type>
{
    template<class OtherPair>
    const typename Pair::first_type& operator()(const OtherPair& x) const
    { return x.first; }

    const typename Pair::first_type& operator()(const typename Pair::first_type& x) const
    { return x; }
};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
// : public std::unary_function<T,T>
{
    typedef T type;
    const T& operator()(const T& x) const
    { return x; }
};

template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<(S >> 1u)>::value);
};

template<> struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template<> struct ls_zeros<1>
{
    static const std::size_t value = 0;
};

template <typename T> struct unvoid { typedef T type; };
template <> struct unvoid<void> { struct type { }; };
template <> struct unvoid<const void> { struct type { }; };

}  //namespace container_detail{
}  //namespace container{
}  //namespace boost{
#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
#define BOOST_INTERPROCESS_DETAIL_MPL_HPP

#if (defined _MSC_VER) && (_MSC_VER >= 1200)
    #pragma once
#endif

#include <cstddef>

namespace boost {
    namespace interprocess {
        namespace ipcdetail {

            template <class T, T val>
            struct integral_constant
            {
                static const T value = val;
                typedef integral_constant<T,val> type;
            };

            template< bool C_ >
            struct bool_ : integral_constant<bool, C_>
            {
                static const bool value = C_; 
            };

            typedef bool_<true>        true_;
            typedef bool_<false>       false_;
            typedef true_  true_type;
            typedef false_ false_type;
            typedef char yes_type;
            struct no_type
            {

            
        #endif  //ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
        #define BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
        #ifdef _GNUC_  
        #endif
        #endif
    };

    };
};

namespace boost {

namespace interprocess {

namespace ipcdetail {

template <class T, T val>
struct integral_constant
{
    static const T value = val;
    typedef integral_constant<T,val> type;
};

template< bool C_ >
struct bool_ : integral_constant<bool, C_>
{
    static const bool value = C_; 
};

typedef bool_<true>        true_;
typedef bool_<false>       false_;

typedef true_  true_type;
typedef false_ false_type;

typedef char yes_type;
struct no_type
{

char padding[8];
;

template <bool B, class T = void>
struct enable_if_c {
  typedef T type;
};

template <class T>
struct enable_if_c<false, T> {
};

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {
};

template <class Cond, class T = void>
struct disable_if : public enable_if_c<!Cond::value, T> {
};

template <class T, class U>
class is_convertible
{
  typedef char true_t;
  class false_t { char dummy[2]; }; 
  static true_t dispatch(U);
  static false_t dispatch(...);
  static T trigger();
  public:
    static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);
};

template<
  bool C
  , typename T1
  , typename T2
> struct if_c
{
  typedef T1 type;
};

template<
  typename T1
  , typename T2
> struct if_c<false,T1,T2>
{
  typedef T2 type;
};
template<typename T1, typename T2, typename T3>
struct if_
{
    typedef typename if_c<0 != T1::value, T2, T3>::type type;
};

template <class Pair>
struct select1st
//   : public std::unary_function<Pair, typename Pair::first_type>
{
    template<class OtherPair>
    const typename Pair::first_type& operator()(const OtherPair& x) const
    {  return x.first;  }

    const typename Pair::first_type& operator()(const typename Pair::first_type& x) const
    {  return x;  }
};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
//   : public std::unary_function<T,T>
{
    typedef T type;
    const T& operator()(const T& x) const
    { return x; }
};

template< std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<(S >> 1u)>::value);
};

template<>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
static const std::size_t value = 0;
};
} //namespace ipcdetail {
} //namespace interprocess {
} //namespace boost {
#endif //#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
/////////////////////////////////////////////////////////////////////////////
//
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//
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//
http://www.boost.org/LICENSE_1_0.txt)
//
//
/////////////////////////////////////////////////////////////////////////////
#ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP
#define BOOST_INTRUSIVE_DETAIL_MPL_HPP
#include <boost/intrusive/detail/config_begin.hpp>
#include <cstddef>
namespace boost {
namespace intrusive {
namespace detail {
typedef char one;
struct two {one _[2];};
template< bool C_ >
struct bool_
{
static const bool value = C_;
};
typedef bool_<true>
typedef bool_<false>

true_;
false_;

typedef true_ true_type;
typedef false_ false_type;
typedef char yes_type;
struct no_type
{

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1818


char padding[8];
;

template <bool B, class T = void>
struct enable_if_c {
    typedef T type;
};

template <class T>
struct enable_if_c<false, T> {};

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {};

template<class F, class Param>
struct apply
{
    typedef typename F::template apply<Param>::type type;
};

template <class T, class U>
class is_convertible
{
    typedef char true_t;
    class false_t { char dummy[2]; ;
    static true_t dispatch(U);
    static false_t dispatch(...);
    static const T &trigger();
    public:
    static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);
};

template<
    bool C
 , typename T1
 , typename T2
>
struct if_c
{
    typedef T1 type;
};

template<
    typename T1
 , typename T2
>
struct if_c<false,T1,T2>
{
typedef T2 type;
};

template<
    typename C
    , typename T1
    , typename T2
>
struct if_
{
    typedef typename if_c<0 != C::value, T1, T2>::type type;
};

template<
    bool C
    , typename F1
    , typename F2
>
struct eval_if_c
    : if_c<C,F1,F2>::type
{};

template<
    typename C
    , typename T1
    , typename T2
>
struct eval_if
    : if_<C,T1,T2>::type
{};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
{
    typedef T type;
};

#ifdef BOOST_MSVC || defined(__BORLANDC_)
#define BOOST_INTRUSIVE_TT_DECL __cdecl
#else
#define BOOST_INTRUSIVE_TT_DECL
#endif

#ifdef (_MSC_EXTENSIONS) && !defined(__BORLAND__) && !defined(_WIN64) && !defined(UNDER_CE)
#define BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS
#endif
template <typename T>
struct is_unary_or_binary_function_impl
{
  static const bool value = false;
};

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
#ifndef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R>
struct is_unary_or_binary_function_impl<R (*)(())>
{
  static const bool value = true;
};

template <typename R>
struct is_unary_or_binary_function_impl<R (*)(...)>
{
  static const bool value = true;
};
#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R>
struct is_unary_or_binary_function_impl<R (__stdcall*)(())>
{
  static const bool value = true;
};
#ifndef _MANAGED

template <typename R>
struct is_unary_or_binary_function_impl<R (__fastcall*)(())>
{
  static const bool value = true;
};
#endif
#endif

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
#ifndef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (*)(T0)>
{
  static const bool value = true;
};

#endif
template<typename R, class T0>
struct is_unary_or_binary_function_impl<R (*)(T0...)>  
{ static const bool value = true; };  

#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS  

template<typename R, class T0>  
struct is_unary_or_binary_function_impl<R (__stdcall*)(T0)>  
{ static const bool value = true; };  

#ifndef _MANAGED  

template<typename R, class T0>  
struct is_unary_or_binary_function_impl<R (__fastcall*)(T0)>  
{ static const bool value = true; };  

#endif  

#endif

// see boost ticket #4094  
// avoid duplicate definitions of is_unary_or_binary_function_impl  
#ifndef _MANAGED  

#endif  

// see boost ticket #4094  
// avoid duplicate definitions of is_unary_or_binary_function_impl  
#ifndef _MANAGED  

#endif  

template<typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (*)(T0, T1)>  
{ static const bool value = true; };  

template<typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (*)(T0, T1...)>  
{ static const bool value = true; };  

#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS  

#endif

template<typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__stdcall*)(T0, T1)>  
{ static const bool value = true; };  

#ifndef _MANAGED  

#endif  

#endif
template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__fastcall*)(T0, T1)>
{  static const bool value = true;  };

#endif

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0, T1)>
{  static const bool value = true;  };

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0, T1...)>
{  static const bool value = true;  };

#endif

template <typename T>
struct is_unary_or_binary_function_impl<T&>
{  static const bool value = false;  };

template<typename T>
struct is_unary_or_binary_function
{  static const bool value = is_unary_or_binary_function_impl<T>::value;   };

//boost::alignment_of yields to 10K lines of preprocessed code, so we
//need an alternative

template <typename T> struct alignment_of;

template< typename T >
struct alignment_of
{  static const std::size_t value = alignment_logic
< sizeof(alignment_of_hack<T>) - sizeof(T)>
 , sizeof(T)
 </sizeof(alignment_of_hack<T>) - sizeof(T)
 , sizeof(T)
>
template <typename T, typename U>
struct is_same
{
    typedef char yes_type;
    struct no_type
    {
        char padding[8];
    }
};

template <typename V>
static yes_type is_same_tester(V*, V*);
static no_type is_same_tester(...);

static T *t;
static U *u;

static const bool value = sizeof(yes_type) == sizeof(is_same_tester(t,u));
};

template<typename T>
struct add_const
{  typedef const T type;   }

template<typename T>
struct remove_const
{  typedef  T type;   }

template<typename T>
struct remove_const<const T>
{  typedef T type;   }

template<typename T>
struct remove_cv
{  typedef  T type;   }

template<typename T>
struct remove_cv<const T>
{  typedef T type;   }

template<typename T>
struct remove_cv<const volatile T>
{  typedef T type;   }

template<typename T>
struct remove_cv<volatile T>


```cpp
{ typedef T type; }

template<class T>
struct remove_reference
{
    typedef T type;
};

template<class T>
struct remove_reference<T&>
{
    typedef T type;
};

template<class Class>
class is_empty_class
{
    template <typename T>
    struct empty_helper_t1 : public T
    {
        empty_helper_t1();
        int i[256];
    };

    struct empty_helper_t2
    { int i[256]; };

    public:
    static const bool value = sizeof(empty_helper_t1<Class>) == sizeof(empty_helper_t2);
};

template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1 + ls_zeros<(S>>1u)>::value);
};

template<>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
    static const std::size_t value = 0;
};
```
```cpp
#include <boost/intrusive/detail/config_end.hpp>

#ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP
Index: boost/mpl/print.hpp
===================================================================
--- boost/mpl/print.hpp	(revision 83411)
+++ boost/mpl/print.hpp	(working copy)
@@ -45,22 +45,21 @@
      : mpl::identity<T>
    #if defined(__MWERKS__)#if defined(BOOST_MSVC)
      enum { n = sizeof(T) + -1 };#elif defined(__MWERKS__)#elif defined(__EDG_VERSION__)#elif defined(BOOST_GCC)
    enum { n1 };#else
    enum { n2 };#elif defined(BOOST_MSVC)
    enum { n = sizeof(T) > -1 };#endif
#endif
```

```cpp
#else
  enum {
      n = #if defined(__EDG_VERSION__)#elif defined(BOOST_GCC)
    enum { n1 };#else
    enum { n2 ;#elif defined(BOOST_MSVC)
    enum { n = sizeof(T) > -1 };#endif
```

```cpp
#if defined(BOOST_MSVC)
#endif //BOOST_INTRUSIVE_DETAIL_MPL_HPP
Index: boost/mpl/print.hpp
===================================================================
--- boost/mpl/print.hpp	(revision 83411)
+++ boost/mpl/print.hpp	(working copy)
@@ -45,22 +45,21 @@
      : mpl::identity<T>
    #if defined(__MWERKS__)#if defined(BOOST_MSVC)
      enum { n = sizeof(T) + -1 };#elif defined(__MWERKS__)#elif defined(__EDG_VERSION__)#elif defined(BOOST_GCC)
    enum { n1 };#else
    enum { n2 };#elif defined(BOOST_MSVC)
    enum { n = sizeof(T) > -1 };#endif
#endif
```

```cpp
#else
  enum {
      n = #if defined(__EDG_VERSION__)#elif defined(BOOST_GCC)
    enum { n1 };#else
    enum { n2 ;#elif defined(BOOST_MSVC)
    enum { n = sizeof(T) > -1 };#endif
```

```cpp
#if defined(BOOST_MSVC)
```

```cpp
#else
  enum {
      n = #if defined(__EDG_VERSION__)#elif defined(BOOST_GCC)
    enum { n1 };#else
    enum { n2 ;#elif defined(BOOST_MSVC)
    enum { n = sizeof(T) > -1 };#endif
```

```cpp
#if defined(BOOST_MSVC)
```
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PERFORMANCE AND VALIDITY OF INFORMATION GENERATED USING SOFTWARE.
This is an attempt to acknowledge early contributions to the garbage
collector. Later contributions should instead be mentioned in
README.changes.

HISTORY -

Early versions of this collector were developed as a part of research
projects supported in part by the National Science Foundation
and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for
the Russell programming language implementation. The first version of the
garbage collector was written primarily by Al Demers. It was then refined
and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U.,
the University of Washington, Rice University (where it was first used for
C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant
contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in
README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser.
The Encore Multimax modifications were supplied by
Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely
due to Vernon Lee, on machines made available to Rice by IBM.
Much of the HP specific code and a number of good suggestions for improving the
generic code are due to Walter Underwood.
Robert Brazile (brazil@diamond.bbn.com) originally supplied the ULTRIX code.
Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk)
subsequently provided updates and information on variation between ULTRIX
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Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and
Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.
Thomas Funke (thf@zelator.in-berlin.de(?)) and
Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Jansen (jansen@parc.xerox.com) supplied the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and
Dave Detlefs (detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks (agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn't
made it into the released version of the collector, yet.)
This package was debianized by Vladimir Prus <ghost@cs.msu.su> on

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```text
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\|--
\+/-

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1.100 boost-python 1.53.0
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1.101 boost-random 1.53.0

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 *
 */

#include "licence_info.hpp"
#include "bcp_imp.hpp"
#include "fileview.hpp"
#include <fstream>
#include <iomanip>
#include <cstring>
#include <stdexcept>
#include <boost/lexical_cast.hpp>
#include <boost/filesystem/operations.hpp>
#include <boost/throw_exception.hpp>

// split_path is a small helper for outputting a path name,
// complete with a link to that path:

struct split_path
{
    const fs::path& root;
    const fs::path& file;
    split_path(const fs::path& r, const fs::path& f)
        : root(r), file(f) {}

private:
    split_path& operator=(const split_path&);
};

std::ostream& operator << (std::ostream& os, const split_path& p)
{
    os << "<a href="" << (p.root / p.file).string() << "]"" << p.file.string() << "]"";
    return os;
}

std::string make_link_target(const std::string& s)
{
    // convert an arbitrary string into something suitable


// for an <a> name:
std::string result;
for(unsigned i = 0; i < s.size(); ++i)
{
    result.append(1, static_cast<std::string::value_type>(std::isalnum(s[i]) ? s[i] : '_'));
}
return result;

void bcp_implementation::output_license_info()
{
    std::pair<const license_info*, int> licenses = get_licenses();

    std::map<int, license_data>::const_iterator i, j;
i = m_license_data.begin();
j = m_license_data.end();

    std::ofstream os(m_dest_path.string().c_str());
    if(!os)
    {
        std::string msg("Error opening ");
        msg += m_dest_path.string();
        msg += " for output."
        std::runtime_error e(msg);
        boost::throw_exception(e);
    }
    os <<
        "<DOCTYPE HTML PUBLIC 
        "-//W3C//DTD HTML 4.0 Transitional//EN"
        "<!DOCTYPE HTML PUBLIC "\
        "<html>
        "<head>
        "<title>Boost Licence Dependency Information"
        if(m_module_list.size() == 1)
        {
            os << " for " << *(m_module_list.begin());
        }
    os <<
        "</title>\n        "</head>\n        "<body>\n        "<H1>Boost Licence Dependency Information"
        if(m_module_list.size() == 1)
        {
            os << " for " << *(m_module_list.begin());
        }
    os <<
        "</H1>\n        "<H2>Contents</h2>\n        "</body>\n        "</html>\n    }
"<pre><a href="#input">Input Information</a></pre>";
if(!m_bsl_summary_mode)
    os << "<a href="#summary">Licence Summary</a>
    os << "<a href="#details">Licence Details</a>

while(i != j)
{
    // title:
    os << "<a href="#" make_link_target(licenses.first[i->first].license_name) "">" licenses.first[i->first].license_name << "</a>
    ++i;
}

os << "<a href="#files">Files with no recognised license</a>
" << a href="#authors">Files with no recognised copyright holder</a>
if(!m_bsl_summary_mode)
{
    os << "Moving to the Boost Software License...
    " << a href="#bsl-converted">Files that can be automatically converted to the Boost Software License</a>
    " << a href="#to-bsl">Files that can be manually converted to the Boost Software License</a>
    " << a href="#not-to-bsl">Files that can NOT be moved to the Boost Software License</a>
    " << a href="#need-bsl-authors">Authors we need to move to the Boost Software License</a>
    " << a href="#copyright">Copyright Holder Information</a>
}

os << "<a href="#depend">File Dependency Information</a>
";

//
// input Information:
//
os << "<a name="input"></a><h2>Input Information</h2>
if(m_scan_mode)
    os << "The following files were scanned for boost dependencies:<BR>
else
    os << "The following Boost modules were checked:<BR>

std::list<std::string>::const_iterator si = m_module_list.begin();
std::list<std::string>::const_iterator sj = m_module_list.end();
while(si != sj)
{
    os << *si << "<BR>
    ++si;
}

os << "The Boost path was: <code>" << m_boost_path.string() << "</code>

//
// extract the boost version number from the boost directory tree,
// not from this app (which may have been built from a previous
// version):

fileview version_file(m_boost_path / "boost/version.hpp");
static const boost::regex version_regex(
    "^[[:blank:]]*#[:[:blank:]]*define[:[:blank:]]*BOOST_VERSION[:[:blank:]]*\d+\(\d+\)\); boost::cmatch what;
if(boost::regex_search(version_file.begin(), version_file.end(), what, version_regex))
{
    int version = boost::lexical_cast<int>(what.str(1));
os << "The Boost version is: " << version / 100000 << "." << version / 100 % 100 << "." << version % 100
        << "</p><br/>
    }
}

// output each license:

i = m_license_data.begin();
j = m_license_data.end();
if(!m_bsl_summary_mode)
{
    // start with the summary:

    os << "<a name="summary"></a><h2>Licence Summary</h2>
    while(i != j)
    {
        // title:
        os << "" << licenses.first[i->first].license_name << "";
        // license text:
        os << "" << licenses.first[i->first].license_text << "";
        // Copyright holders:
        os << "" << licenses.first[i->first].license_name << "";
        ++i;
    }
}

// and now the details:

i = m_license_data.begin();
j = m_license_data.end();
int license_index = 0;
os << "<a name="details"></a><h2>Licence Details</h2>
while(i != j)
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std::set<fs::path, path_less>::const_iterator i2, j2;
i2 = m_unknown_licenses.begin();
j2 = m_unknown_licenses.end();
while(i2 != j2)
{
  os << split_path(m_boost_path, *i2) << "<br>
  ++i2;
}
os << "</p></BLOCKQUOTE>";

// Output list of files with no found copyright holder:

os << "<h2><a name="authors"></a>Files With No Recognisable Copyright Holder</h2>
";
"<p>The following " << m_unknown_authors.size() << " files had no recognisable copyright holder:
</p><BLOCKQUOTE><p>
  i2 = m_unknown_authors.begin();
  j2 = m_unknown_authors.end();
  while(i2 != j2)
  {
    os << split_path(m_boost_path, *i2) << "<br>
    ++i2;
  }
os << "</p></BLOCKQUOTE>";

if(!m_bsl_summary_mode)
{
  // Output list of files that have been moved over to the Boost
  // Software License, along with enough information for human
  // verification.

  //
  os << "<h2><a name="bsl-converted"></a>Files that can be automatically converted to the Boost Software License</h2>
  ";
  "<p>The following " << m_converted_to_bsl.size() << " files can be automatically converted to the Boost Software License, but require manual verification before they can be committed to CVS:";
  if (!m_converted_to_bsl.empty())
  {
  typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>::const_iterator conv_iterator;
  conv_iterator i = m_converted_to_bsl.begin(),
ie = m_converted_to_bsl.end();
  int file_num = 1;
  while (i != ie)
  {
    os << "<P>[" << file_num << "] File: <tt>" << split_path(m_boost_path, i->first)
    "<\tt><br>\n";
    <tr><td><pre>
    << i->second.first << "</pre></td><br>\n    <td><pre>
    << i->second.second << "</pre></td><br>\n    </tr></table><\n    <br>\n   
    ++i;
  

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++file_num;
}
}

// Output list of files that could be moved over to the Boost Software License
//
os << "<h2><a name="to-bsl"></a>Files that could be converted to the Boost Software License</h2>
"<p>The following " << m_can_migrate_to_bsl.size() << " files could be manually converted to the Boost Software License, but have not yet been:

<i2 = m_can_migrate_to_bsl.begin();
j2 = m_can_migrate_to_bsl.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "<br>
;++i2;
}
os << "</p&gt;</BLOCKQUOTE>";

// Output list of files that can not be moved over to the Boost Software License
//
os << "<h2><a name="not-to-bsl"></a>Files that can NOT be converted to the Boost Software License</h2>
"<p>The following " << m_cannot_migrate_to_bsl.size() << " files cannot be converted to the Boost Software License because we need the permission of more authors:

<i2 = m_cannot_migrate_to_bsl.begin();
j2 = m_cannot_migrate_to_bsl.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "<br>
;++i2;
}
os << "</p&gt;</BLOCKQUOTE>";

// Output list of authors that we need permission for to move to the BSL
//
os << "<h2><a name="need-bsl-authors"></a>Authors we need for the BSL</h2>
"<p>Permission of the following authors is needed before we can convert to the Boost Software License. The list of authors that have given their permission is contained in <code>more/blanket-permission.txt</code>

std::copy(m_authors_for_bsl_migration.begin(), m_authors_for_bsl_migration.end(),
std::ostream_iterator<std::string>(os, "\n"));
os << "</p&gt;</BLOCKQUOTE>";

// output a table of copyright information:
//
os << "<h2><a name="copyright"></a>Copyright Holder Information</h2>&lt;table border="1"&gt;
std::map<std::string, std::set<fs::path, path_less> > ::const_iterator ad, ead;
ad = m_author_data.begin();
ead = m_author_data.end();
while(ad != ead)
{
    os << "<tr><td>" << ad->first << "</td><td>";
    std::set<fs::path, path_less>::const_iterator fi, efi;
    fi = ad->second.begin();
    efi = ad->second.end();
    while(fi != efi)
    {
        os << split_path(m_boost_path, *fi) << " ";
        ++fi;
    }
    os << "</td></tr>
    ++ad;
}
os << "</table>\n";
}

// output file dependency information:
//
os << "<H2><a name="depend"></a>File Dependency Information</H2><BLOCKQUOTE><pre>
std::map<fs::path, fs::path, path_less>::const_iterator dep, last_dep;
std::set<fs::path, path_less>::const_iterator fi, efi;
fi = m_copy_paths.begin();
efi = m_copy_paths.end();
// if in summary mode, just figure out the "bad" files and print those only:
std::set<fs::path, path_less> bad_paths;
if(m_bsl_summary_mode)
{
    bad_paths.insert(m_unknown_licenses.begin(), m_unknown_licenses.end());
    bad_paths.insert(m_unknown_authors.begin(), m_unknown_authors.end());
    bad_paths.insert(m_can_migrate_to_bsl.begin(), m_can_migrate_to_bsl.end());
    bad_paths.insert(m_cannot_migrate_to_bsl.begin(), m_cannot_migrate_to_bsl.end());
    typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>
        ::const_iterator conv_iterator;
    conv_iterator i = m_converted_to_bsl.begin(),
ie = m_converted_to_bsl.end();
    while(i != ie)
    {
        bad_paths.insert(i->first);
        ++i;
    }
    fi = bad_paths.begin();
    efi = bad_paths.end();
    os << "<P>For brevity, only files not under the BSL are shown</P>\n";
}
while(fi != efi)
os << split_path(m_boost_path, *fi);
    dep = m_dependencies.find(*fi);
    last_dep = m_dependencies.end();
    std::set<fs::path, path_less> seen_deps;
    if (dep != last_dep)
        while(true)
            
            os << " -> ";
            if(fs::exists(m_boost_path / dep->second))
                os << split_path(m_boost_path, dep->second);
            else if(fs::exists(dep->second))
                os << split_path(fs::path(), dep->second);
            else
                os << dep->second.string();
            
            if(seen_deps.find(dep->second) != seen_deps.end())
                os << " <I>(Circular dependency!)</I>";
            else
                os << " <I>(Circular dependency!!!)</I>
        local dep = dep;
        local last_dep = dep;
        dep = m_dependencies.find(dep->second);
        if((dep == m_dependencies.end()) || (0 == compare_paths(dep->second, last_dep->second)))
            break;
            
        if(!os)
            std::string msg("Error writing to ");
            msg += m_dest_path.string();
            msg += ";
            std::runtime_error e(msg);
            boost::throw_exception(e);
Maybe this should pass?
This package was debianized by Vladimir Prus <ghost@cs.msu.su> on

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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dossler (dossler@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D. Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dossler provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(aga@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)

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//
//
////////////////////////////////////////////////////////////////////////////

#ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP
#define BOOST_INTRUSIVE_DETAIL_MPL_HPP

#include <boost/intrusive/detail/config_begin.hpp>
#include <cstddef>

namespace boost {
namespace intrusive {
namespace detail {

typedef char one;
struct two {one _[2];};

#endif //BOOST_INTRUSIVE_DETAIL_MPL_HPP
template< bool C_ >
struct bool_
{
  static const bool value = C_; 
};

typedef bool_<true> true_;
typedef bool_<false> false_;
typedef true_  true_type;
typedef false_ false_type;
typedef char yes_type;
struct no_type
{
  char padding[8];
};

template <bool B, class T = void>
struct enable_if_c {
  typedef T type;
};
template <class T>
struct enable_if_c<false, T> {};
template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {};
template<class F, class Param>
struct apply
{
  typedef typename F::template apply<Param>::type type;
};
template <class T, class U>
class is_convertible
{
  typedef char true_t;
  class false_t { char dummy[2]; }; 
  static true_t dispatch(U);
  static false_t dispatch(...);
  static const T &trigger();
  public:
    static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);
};
template<
```cpp
bool C
, typename T1
, typename T2
>
struct if_c
{
    typedef T1 type;
};

template<
    typename T1
, typename T2
>
struct if_c<false,T1,T2>
{
    typedef T2 type;
};

template<
    typename T1
, typename T2
>
struct if_<
    {
    typedef typename if_c<0 != C::value, T1, T2>::type type;
};

template<
    bool C
, typename F1
, typename F2
>
struct eval_if_c
    : if_c<C,F1,F2>::type
{};

template<
    typename C
, typename T1
, typename T2
>
struct eval_if
    : if_<C,T1,T2>::type
{};

// identity is an extension: it is not part of the standard.
template <class T>
```
struct identity
{
    typedef T type;
};

#if defined(BOOST_MSVC) || defined(__BORLANDC__)
#define BOOST_INTRUSIVE_TTDECL __cdecl
#else
#define BOOST_INTRUSIVE_TTDECL
#endif

#if defined(_MSC_EXTENSIONS) && !defined(__BORLAND__) && !defined(_WIN64) &&
!defined(UNDER_CE)
#define BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS
#endif

template<typename T>
struct is_unary_or_binary_function_impl
{
    static const bool value = false;
};

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
#ifndef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template<typename R>
struct is_unary_or_binary_function_impl<R (*)(())>
{
    static const bool value = true;
};

template<typename R>
struct is_unary_or_binary_function_impl<R (*)(...)>
{
    static const bool value = true;
};

#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template<typename R>
struct is_unary_or_binary_function_impl<R (__stdcall*)()> 
{
    static const bool value = true;
};

#ifndef _MANAGED

template<typename R>
struct is_unary_or_binary_function_impl<R (__fastcall*)()> 
{
    static const bool value = true;
};

#endif // !_MANAGED

#endif // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template<typename R>
struct is_unary_or_binary_function_impl<R(__cdecl*)()>
{
    static const bool value = true;
};
template <typename R>
struct is_unary_or_binary_function_impl<R (__cdecl*)(...)>
{  static const bool value = true;  };

#ifdef

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
#endif

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
#ifndef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (*)(T0)>
{  static const bool value = true;  };

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (*)(T0...)>
{  static const bool value = true;  };

#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (__stdcall*)(T0)>
{  static const bool value = true;  };

#ifndef _MANAGED

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (__fastcall*)(T0)>
{  static const bool value = true;  };

#endif

#endif

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
#ifndef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS


template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (*)(T0, T1)>
{  static const bool value = true;  };

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (*)(T0, T1...)>
{  static const bool value = true;  };

#define // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__stdcall*)(T0, T1)>
{  static const bool value = true;  };

#ifndef _MANAGED

#define // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__fastcall*)(T0, T1)>
{  static const bool value = true;  };
#endif

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0, T1)>
{  static const bool value = true;  };

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0, T1...)>
{  static const bool value = true;  };

#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__stdcall*)(T0, T1)>
{  static const bool value = true;  };

#ifndef _MANAGED

#define // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__fastcall*)(T0, T1)>
{  static const bool value = true;  };
#endif

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0, T1)>
{  static const bool value = true;  };

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0, T1...)>
{  static const bool value = true;  };
#endif

template <typename T>
struct is_unary_or_binary_function_impl<T&>
{  static const bool value = false;  };

template<typename T>
struct is_unary_or_binary_function
{  static const bool value = is_unary_or_binary_function_impl<T>::value;   };

//boost::alignment_of yields to 10K lines of preprocessed code, so we
//need an alternative
template <typename T> struct alignment_of;

template <typename T>
struct alignment_of_hack
{
  char c;
  T t;
alignment_of_hack();
};

template <unsigned A, unsigned S>
struct alignment_logic
{
    static const std::size_t value = A < S ? A : S;
};

template< typename T >
struct alignment_of
{
    static const std::size_t value = alignment_logic
        < sizeof(alignment_of_hack<T> ) - sizeof(T)
        , sizeof(T)
        >::value;
};

template <typename T, typename U>
struct is_same
{
    typedef char yes_type;
    struct no_type
    {
        char padding[8];
    }
;
    template <typename V>
    static yes_type is_same_tester(V*, V*);
    static no_type is_same_tester(...);

    static T *t;
    static U *u;

    static const bool value = sizeof(yes_type) == sizeof(is_same_tester(t,u));
};

template<typename T>
struct add_const
{  typedef const T type;   }

template<typename T>
struct remove_const
{  typedef  T type;   }

template<typename T>
struct remove_const<const T>
{  typedef T type;   }
template<typename T>
struct remove_cv
{
  typedef T type;
};

template<typename T>
struct remove_cv<const T>
{
  typedef T type;
};

template<typename T>
struct remove_cv<const volatile T>
{
  typedef T type;
};

template<typename T>
struct remove_cv<volatile T>
{
  typedef T type;
};

template<class T>
struct remove_reference
{
  typedef T type;
};

template<class T>
struct remove_reference<T&>
{
  typedef T type;
};

template<class Class>
class is_empty_class
{
  template <typename T>
  struct empty_helper_t1 : public T
  {
    empty_helper_t1();
    int i[256];
  };

  struct empty_helper_t2
  { int i[256]; };

  public:
    static const bool value = sizeof(empty_helper_t1<Class>) == sizeof(empty_helper_t2);
};

template<std::size_t S>
struct ls_zeros
{
}{  
  static const std::size_t value = (S & std::size_t(1)) ? 0 : (1 + ls_zeros<(S>>1u)>::value);
};

template<>
struct ls_zeros<0>
{
  static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
  static const std::size_t value = 0;
};

} //namespace detail
} //namespace intrusive
} //namespace boost

#include <boost/intrusive/detail/config_end.hpp>

#endif //BOOST_INTRUSIVE_DETAIL_MPL_HPP

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//
//
//*************************************************************************/

#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
#define BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

#if (defined _MSC_VER) && (_MSC_VER >= 1200)
#  pragma once
#endif

#include <cstddef>
namespace boost {
namespace container {
namespace container_detail {


template <class T, T val>
struct integral_constant
{
    static const T value = val;
    typedef integral_constant<T,val> type;
};

template<bool C_>
struct bool_<integral_constant<bool, C_> >
{
    static const bool value = C_;  
    operator bool() const { return bool_.value; } 
};

typedef bool_<true>        true_; 
typedef bool_<false>       false_; 

typedef true_  true_type; 
typedef false_ false_type;

typedef char yes_type;
struct no_type
{
    char padding[8];
};

template <bool B, class T = void>
struct enable_if_c {
    typedef T type;
};

template <class T>
struct enable_if_c<false, T> {}; 

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {};

template <class Cond, class T = void>
struct disable_if : public enable_if_c<!Cond::value, T> {};

template <bool B, class T = void>
struct disable_if_c : public enable_if_c<!B, T> {}; 

template <class T, class U>
class is_convertible
{
    typedef char true_t;
    class false_t { char dummy[2]; };
static true_t dispatch(U);
static false_t dispatch(...);
static T trigger();
public:
enum { value = sizeof(dispatch(trigger())) == sizeof(true_t) };
};

template<
    bool C
 , typename T1
 , typename T2
>
struct if_c
{
    typedef T1 type;
};

template<
    typename T1
 , typename T2
>
struct if_c<false,T1,T2>
{
    typedef T2 type;
};

template<
    typename T1
 , typename T2
 , typename T3
>
struct if_
{
    typedef typename if_c<0 != T1::value, T2, T3>::type type;
};

template <class Pair>
struct select1st
// : public std::unary_function<Pair, typename Pair::first_type>
{
    template<class OtherPair>
    const typename Pair::first_type& operator()(const OtherPair& x) const
    { return x.first;  }

    const typename Pair::first_type& operator()(const typename Pair::first_type& x) const
    { return x;  }
};
// identity is an extension: it is not part of the standard.
template <class T>
struct identity
//   : public std::unary_function<T,T>
{
    typedef T type;
    const T& operator()(const T& x) const
    { return x; }
};

template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<(S >> 1u)>::value);
};

template<>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
    static const std::size_t value = 0;
};

template<typename T> struct unvoid { typedef T type; };
template <> struct unvoid<void> { struct type { }; };
template <> struct unvoid<const void> { struct type { }; };

}  //namespace container_detail {
}  //namespace container {
}  //namespace boost {
#endif   //#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

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//
//
#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
#define BOOST_INTERPROCESS_DETAIL_MPL_HPP

#if (defined _MSC_VER) && (_MSC_VER >= 1200)
  # pragma once
#endif

#include <cstdlib>

namespace boost {
namespace interprocess {
namespace ipcdetail {

template <class T, T val>
struct integral_constant
{
  static const T value = val;
  typedef integral_constant<T,val> type;
};

template< bool C_ >
struct bool_ : integral_constant<bool, C_>
{
  static const bool value = C_;  
};

typedef bool_<true>        true_;
typedef bool_<false>       false_;
typedef true_   true_type;
typedef false_  false_type;

typedef char yes_type;
struct no_type
{
  char padding[8];
};

template <bool B, class T = void>
struct enable_if_c { 
  typedef T type;
};

template <class T>
struct enable_if_c<false, T> { 
};

} //namespace ipcdetail
} //namespace interprocess
} //namespace boost
#endif //BOOST_INTERPROCESS_DETAIL_MPL_HPP
template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {};

template <class Cond, class T = void>
struct disable_if : public enable_if_c<!Cond::value, T> {};

template <class T, class U>
class is_convertible
{
    typedef char true_t;
    class false_t { char dummy[2]; };
    static true_t dispatch(U);
    static false_t dispatch(...);
    static T trigger();
    public:
    static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);
};

template<
    bool C
  , typename T1
  , typename T2
>
struct if_c
{
    typedef T1 type;
};

template<
    typename T1
  , typename T2
>
struct if_c<false,T1,T2>
{
    typedef T2 type;
};

template<
    typename T1
  , typename T2
  , typename T3
>
struct if_<
{
    typedef typename if_c<0 != T1::value, T2, T3>::type type;
};
template <class Pair>
struct select1st
  // : public std::unary_function<Pair, typename Pair::first_type>
  
  template<class OtherPair>
  const typename Pair::first_type& operator()(const OtherPair& x) const
  { return x.first; }

const typename Pair::first_type& operator()(const typename Pair::first_type& x) const
  { return x; }
};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
  // : public std::unary_function<T, T>
  
  typedef T type;
  const T& operator()(const T& x) const
  { return x; }
};

template<std::size_t S>
struct ls_zeros
  
  static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<(S >> 1u)>::value);
};

template<>
struct ls_zeros<0>
  
  static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
  
  static const std::size_t value = 0;
};

#ifdef //ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
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All the value based traits in this library conform to MPL’s requirements for an integral constant type, that includes a number of rather intrusive workarounds for broken compilers.

Purely as an implementation detail, this means that
true_type inherits from \texttt{boost\::mpl\::true\_}\], false_type inherits from \texttt{boost\::mpl\::false\_}\], and integral_constant\<T\>, v\> inherits from \texttt{boost\::mpl\::integral\_<c\>\}\<\texttt{T\<,\>v\}>\> (provided \texttt{T\ is not \texttt{boost\::mpl\::integral\_<c\>\}})

Frederic Bron, Steve Cleary, Beman Dawes, Aleksey Gurtovoy, Howard Hinnant, Jesse Jones, Mat Marcus, Itay Maman, John Maddock, Alexander Nasonov, Thorsten Ottosen, Roman Perepelitsa, Robert Ramey, Jeremy Siek, Robert Stewart and Steven Watanabe

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[section:mpl MPL Interoperability]

All the value based traits in this library conform to MPL’s requirements for an Integral Constant type: that includes a number of rather intrusive workarounds for broken compilers.

Purely as an implementation detail, this means that `__true_type` inherits from `boost::mpl::true_`, `__false_type` inherits from `boost::mpl::false_`, and `__integral_constant<T, v>` inherits from `boost::mpl::integral_c<T,v>` (provided `T` is not `bool`.)

[endsect]
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]
[/============================================================================
Boost.Geometry (aka GGL, Generic Geometry Library)

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Index: boost/mpl/print.hpp
===================================================================
--- boost/mpl/print.hpp	(revision 83411)
+++ boost/mpl/print.hpp	(working copy)
@@ -45,22 +45,21 @@
 : mpl::identity<T>
 #if defined(__MWERKS__)
   , aux::print_base
-#endif
+#endif
 
{  
#if defined(BOOST_MSVC)
   enum { n = sizeof(T) + -1 }; 
#endif
#elif defined(__MWERKS__)
  void f(int);
-#else
-    enum {  
-        n =  
-# if defined(__EDG_VERSION__) 
-        aux::dependent_unsigned<T>::value > -1 
-# else
-        sizeof(T) > -1 
-# endif
-    };
-#endif
+#elif defined(__EDG_VERSION__) 
+    enum { n = aux::dependent_unsigned<T>::value > -1 }; 
+#elif defined(BOOST_GCC) 
+    enum { n1 }; 
+    enum { n2 }; 
+    enum { n = n1 != n2 }; 
+#else 
+    enum { n = sizeof(T) > -1 }; 
+#endif
}

#if defined(BOOST_MSVC)

1.102 boost-regex 1.53.0
1.102.1 Available under license:

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Maybe this should pass?

#include "licence_info.hpp"
#include "bcp_imp.hpp"
#include "fileview.hpp"
#include <fstream>
#include <iomanip>
#include <cstring>
#include <stdexcept>
#include <boost/lexical_cast.hpp>
#include <boost/filesystem/operations.hpp>
#include <boost/throw_exception.hpp>

// split_path is a small helper for outputting a path name,
// complete with a link to that path:
//
struct split_path
{
    const fs::path& root;
    const fs::path& file;
    split_path(const fs::path& r, const fs::path& f)
    : root(r), file(f) {}

private:
    split_path& operator=(const split_path&); 
};

std::ostream& operator << (std::ostream& os, const split_path& p)
{
    os << "<a href=" << (p.root / p.file).string() << ">
" << p.file.string() << "</a>";
    return os;
}
std::string make_link_target(const std::string& s)
{
    // convert an arbitrary string into something suitable
    // for an <a> name:
    std::string result;
    for(unsigned i = 0; i < s.size(); ++i)
    {
        result.append(1, static_cast<std::string::value_type>(std::isalnum(s[i]) ? s[i] : '_'));
    }
    return result;
}

void bcp_implementation::output_license_info()
{
    std::pair<const license_info*, int> licenses = get_licenses();

    std::map<int, license_data>::const_iterator i, j;
    i = m_license_data.begin();
    j = m_license_data.end();

    std::ofstream os(m_dest_path.string().c_str());
    if(!os)
    {
        std::string msg("Error opening ");
        msg += m_dest_path.string();
        msg += " for output."
        std::runtime_error e(msg);
        boost::throw_exception(e);
    }
    os <<
"<!DOCTYPE HTML PUBLIC "/-//W3C//DTD HTML 4.0 Transitional//EN"">\n"
"<html>\n"
"<head>\n"
"<title>Boost Licence Dependency Information";
if(m_module_list.size() == 1)
{
    os << " for " << *(m_module_list.begin());
}

}
os << " for " << *(m_module_list.begin());
}
os <<
"</H1>\n"
"<H2>Contents</h2>\n"
"<pre><a href=\"#input\">Input Information</a>\n";
if(!m_bsl_summary_mode)
os << "<a href=\"#summary\">Licence Summary</a>\n";
os << "<a href=\"#details\">Licence Details</a>\n";
while(i != j)
{
// title:
os << " <A href=\"#" << make_link_target(licenses.first[i->first].license_name)
<< "\">" << licenses.first[i->first].license_name << "</a>\n";
++i;
}
os << "<a href=\"#files\">Files with no recognised license</a>\n"
"<a href=\"#authors\">Files with no recognised copyright holder</a>\n";
if(!m_bsl_summary_mode)
{
os <<
"Moving to the Boost Software License...\n"
" <a href=\"#bsl-converted\">Files that can be automatically converted to the Boost Software License</a>\n"
" <a href=\"#to-bsl\">Files that can be manually converted to the Boost Software License</a>\n"
" <a href=\"#not-to-bsl\">Files that can <b>NOT</b> be moved to the Boost Software License</a>\n"
" <a href=\"#need-bsl-authors\">Authors we need to move to the Boost Software License</a>\n"
"<a href=\"#copyright\">Copyright Holder Information</a>\n";
}
os <<
"<a href=\"#depend\">File Dependency Information</a>\n"
"</pre>";
//
// input Information:
//
os << "<a name=\"input\"></a><h2>Input Information</h2>\n";
if(m_scan_mode)
os << "<P>The following files were scanned for boost dependencies:<BR>";
else
os << "<P>The following Boost modules were checked:<BR>";
std::list<std::string>::const_iterator si = m_module_list.begin();
std::list<std::string>::const_iterator sj = m_module_list.end();
while(si != sj)
{
os << *si << "<BR>";

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1875


os << "</p><p>The Boost path was: <code>" << m_boost_path.string() << "</code></p>";

// extract the boost version number from the boost directory tree,
// not from this app (which may have been built from a previous
// version):
//
fileview version_file(m_boost_path / "boost/version.hpp");
static const boost::regex version_regex("^[[:blank:]]*#\[[:blank:]]*define\[[:blank:]]*BOOST_VERSION\[[:blank:]]*([vV]\d+)\);
boost::cmatch what;
if(boost::regex_search(version_file.begin(), version_file.end(), what, version_regex))
{
    int version = boost::lexical_cast<int>(what.str(1));
    os << "<p>The Boost version is: " << version / 100000 << "." << version / 100 % 100 << "</p><n";}

// output each license:
//
i = m_license_data.begin();
j = m_license_data.end();
if(!m_bsl_summary_mode)
{
    // start with the summary:
    //
os << "<a name="summary"></a><h2>Licence Summary</h2>
    while(i != j)
    {
        // title:
        os << 
"<H3>" << licenses.first[i->first].license_name << "</H3>n";
        // license text:
        os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
        // Copyright holders:
        os << "<P>This license is used by " << i->second.authors.size() 
<< " authors and " << i->second.files.size() << " files " << make_link_target(licenses.first[i->first].license_name) << "(see details)</a>";
        os << "</P><n";
        ++i;
    }
}

// and now the details:
//
i = m_license_data.begin();
j = m_license_data.end();
int license_index = 0;
os << "<a name="details"></a><h2>Licence Details</h2>
while(i != j)
{
  // title:
os <<
    "<H3><A name="\"" " make_link_target(licenses.first[i->first].license_name)
    "\""></a>" << licenses.first[i->first].license_name << "</H3>\n";
  // license text:
os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
  if(!m_bsl_summary_mode || (license_index >= 3))
  {
    // Copyright holders:
os << "<P>This license is used by the following " << i->second.authors.size() << " copyright
holders:</P><BLOCKQUOTE><P>
std::set<std::string>::const_iterator x, y;
x = i->second.authors.begin();
y = i->second.authors.end();
while(x != y)
{
os << *x << "<BR>\n";
++x;
}
os << "</P></BLOCKQUOTE>\n";
  // Files using this license:
os << "<P>This license applies to the following " << i->second.files.size() << " "
files:</P><BLOCKQUOTE><P>
std::set<fs::path, path_less>::const_iterator m, n;
m = i->second.files.begin();
n = i->second.files.end();
while(m != n)
{
os << split_path(m_boost_path, *m) << "<br>\n";
++m;
}
os << "</P></BLOCKQUOTE>\n";
  }else
  {
    os << "<P>This license is used by " << i->second.authors.size() << " authors (list omitted for brevity).</P>\n";
os << "<P>This license applies to " << i->second.files.size() << " files (list omitted for brevity).</P>\n";
    ++license_index;
++i;
  }
}
/ Output list of files not found to be under license control:
//
os << "<h2><a name="files"></a>Files With No Recognisable Licence</h2>\n"
"<P>The following " << m_unknown_licenses.size() << " files had no recognisable license
information:<\p><BLOCKQUOTE>\n";
std::set<fs::path, path_less>::const_iterator i2, j2;
i2 = m_unknown_licenses.begin();
j2 = m_unknown_licenses.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "\n"
    ++i2;
}
    os << "</p></BLOCKQUOTE>";
// Output list of files with no found copyright holder:
//
os << "<h2><a name="authors"></a>Files With No Recognisable Copyright Holder</h2>\n"
"<P>The following " << m_unknown_authors.size() << " files had no recognisable copyright
holder:<\p><BLOCKQUOTE>\n";
i2 = m_unknown_authors.begin();
j2 = m_unknown_authors.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "\n"
    ++i2;
}
    os << "</p></BLOCKQUOTE>";
if(!m_bsl_summary_mode)
{
    // Output list of files that have been moved over to the Boost
    // Software License, along with enough information for human
    // verification.
    //
os << "<h2><a name="bsl-converted"></a>Files that can be automatically converted to the Boost Software
License</h2>\n"
    "<P>The following " << m_converted_to_bsl.size() << " files can be automatically converted to the Boost Software
License, but require manual verification before they can be committed to CVS:<\p>\n";
    if (!m_converted_to_bsl.empty())
    {
        typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>
        ::const_iterator conv_iterator;
        conv_iterator i = m_converted_to_bsl.begin(),
        ie = m_converted_to_bsl.end();
        int file_num = 1;
        while (i != ie)
        {
            os << split_path(m_boost_path, *i) << "\n"
            ++i;
            if (!m_converted_to_bsl.empty())
            {
                os << split_path(m_boost_path, *i) << "\n"
                ++i;
                }
            else
            };
Files that could be converted to the Boost Software License, but have not yet been:

''

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''

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''

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''
// output a table of copyright information:
//
os << "<H2><a name="copyright"></a>Copyright Holder Information</H2><table border="1">
std::map<std::string, std::set<fs::path, path_less> >::const_iterator ad, ead;
ad = m_author_data.begin();
ead = m_author_data.end();
while(ad != ead)
{
    os << "<tr><td>" << ad->first << "</td><td>";
    std::set<fs::path, path_less>::const_iterator fi, efi;
    fi = ad->second.begin();
    efi = ad->second.end();
    while(fi != efi)
    {
        os << split_path(m_boost_path, *fi) << " ";
        ++fi;
    }
    os << "</td></tr>
++ad;
}
os << "</table>

// output file dependency information:
//
os << "<H2><a name="depend"></a>File Dependency Information</H2><BLOCKQUOTE><pre>"
std::map<fs::path, fs::path, path_less>::const_iterator dep, last_dep;
std::set<fs::path, path_less>::const_iterator fi, efi;
fi = m_copy_paths.begin();
efi = m_copy_paths.end();
// if in summary mode, just figure out the "bad" files and print those only:
std::set<fs::path, path_less> bad_paths;
if(m_bsl_summary_mode)
{
    bad_paths.insert(m_unknown_licenses.begin(), m_unknown_licenses.end());
    bad_paths.insert(m_unknown_authors.begin(), m_unknown_authors.end());
    bad_paths.insert(m_can_migrate_to_bsl.begin(), m_can_migrate_to_bsl.end());
    bad_paths.insert(m_cannot_migrate_to_bsl.begin(), m_cannot_migrate_to_bsl.end());
    typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>
::const_iterator conv_iterator;
    conv_iterator i = m_converted_to_bsl.begin(),
    ie = m_converted_to_bsl.end();
    while(i != ie)
    {
        bad_paths.insert(i->first);
        ++i;
    }
fi = bad_paths.begin();
ifi = bad_paths.end();
os << "<P>For brevity, only files not under the BSL are shown</P>\n";
}
while(fi != efi)
{
    os << split_path(m_boost_path, *fi);
dep = m_dependencies.find(*fi);
last_dep = m_dependencies.end();
std::set<fs::path, path_less> seen_deps;
if (dep != last_dep)
    while(true)
    {
        os << " -> ";
        if(fs::exists(m_boost_path / dep->second))
            os << split_path(m_boost_path, dep->second);
        else if(fs::exists(dep->second))
            os << split_path(fs::path(), dep->second);
        else
            os << dep->second.string();
        if(seen_deps.find(dep->second) != seen_deps.end())
        {
            os << " (Circular dependency!)";
            break;  // circular dependency!!!
        }
        seen_deps.insert(dep->second);
        last_dep = dep;
        dep = m_dependencies.find(dep->second);
        if((dep == m_dependencies.end()) || (0 == compare_paths(dep->second, last_dep->second)))
            break;
    }
    os << "\n";
++fi;
}

if(!os)
{
    std::string msg("Error writing to ");
    msg += m_dest_path.string();
    msg += ":";
    std::runtime_error e(msg);
    boost::throw_exception(e);
}


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This package was debianized by Vladimir Prus <ghost@cs.msu.su> on Wed, 17 July 2002, 19:27:00 +0400.

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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined
and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U.,
the University of Washington, Rice University (where it was first used for
C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant
contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in
README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser.
The Encore Multimax modifications were supplied by
Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely
due to Vernon Lee, on machines made available to Rice by IBM.
Much of the HP specific code and a number of good suggestions for improving the
generic code are due to Walter Underwood.
Robert Brazile (brazil@diamond.bbn.com) originally supplied the ULTRIX code.
Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk)
subsequently provided updates and information on variation between ULTRIX
systems. Parag Patel (parag@netcom.com) supplied the A/UX code.
Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and
Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.
Thomas Funke (thf@zelator.in-berlin.de(?)) and
Brian D.Carlstrom (bde@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (douglas.wg.icl.co.uk) provided ICL DRS6000 code.
Bill Jansen (jansen@parc.xerox.com) supplied the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and
Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks(agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn’t
made it into the released version of the collector, yet.)

Boost.Geometry (aka GGL, Generic Geometry Library)

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Jeff Garland

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All the value based traits in this library conform to MPL's requirements for an [Integral Constant type] that includes a number of rather intrusive workarounds for broken compilers.

Purely as an implementation detail, this means that `__true_type` inherits from `boost::mpl::true_`, `__false_type` inherits from `boost::mpl::false_`, and `__integral_constant<T, v>` inherits from `boost::mpl::integral_c<T,v>` (provided `T` is not `bool`)

[endsect]
an <a href="../../../../../libs/mpl/doc/refmanual/integral-constant.html" target="_top">Integral
Constant type</a>: that includes a number of rather intrusive workarounds
for broken compilers.
</p>

<p>
Purely as an implementation detail, this means that <code class="computeroutput">true_type</code>
inherits from <code class="computeroutput"><a href="../../../../../libs/mpl/doc/refmanual/bool.html" target="_top">boost</a>&lt;span class="special">::</span>mpl&lt;span class="special">::</span>true_&lt;span class="special">::</span>
</p>

<p>
and <code class="computeroutput">false_type</code> inherits from <code class="computeroutput"><a href="../../../../../libs/mpl/doc/refmanual/bool.html" target="_top">boost</a>&lt;span class="special">::</span>mpl&lt;span class="special">::</span>false_&lt;span class="special">::</span>
</p>

<p>
(provided <code class="computeroutput">T</code> is not <code class="computeroutput">bool</code>)
</p>
#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
#define BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

#include <cstddef>

namespace boost {
namespace container {
namespace container_detail {

template <class T, T val>
struct integral_constant
{
    static const T value = val;
    typedef integral_constant<T,val> type;
};

template< bool C_> 
struct bool_ : integral_constant<bool, C_>
{
    static const bool value = C_; 
    operator bool() const { return bool_::value; } 
};

}}
}
#endif //BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
typedef bool_<true>        true_;  
typedef bool_<false>       false_;  

typedef true_  true_type;        
typedef false_ false_type;       

typedef char yes_type;        
struct no_type
{
    char padding[8];
};

template <bool B, class T = void>
struct enable_if_c {
    typedef T type;
};

template <class T>
struct enable_if_c<false, T> {};

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {};

template <class Cond, class T = void>
struct disable_if : public enable_if_c<!Cond::value, T> {};

template <bool B, class T = void>
struct disable_if_c : public enable_if_c<!B, T> {};

template <class T, class U>
class is_convertible
{
    typedef char true_t;
    class false_t { char dummy[2]; };  
    static true_t dispatch(U);
    static false_t dispatch(...);
    static T trigger();
    public:
    enum { value = sizeof(dispatch(trigger())) == sizeof(true_t) };  
};

template<
    bool C  
, typename T1
 , typename T2
>
struct if_c
{
typedef T1 type;
};

template<
    typename T1
    , typename T2
>
struct if_c<false,T1,T2>
{
    typedef T2 type;
};

template<
    typename T1
    , typename T2
    , typename T3
>
struct if_
{
    typedef typename if_c<0 != T1::value, T2, T3>::type type;
};

template <class Pair>
struct select1st
//   : public std::unary_function<Pair, typename Pair::first_type>
{
    template<class OtherPair>
    const typename Pair::first_type& operator()(const OtherPair& x) const
    {  return x.first;  }

    const typename Pair::first_type& operator()(const typename Pair::first_type& x) const
    {  return x;  }
};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
//   : public std::unary_function<T,T>
{
    typedef T type;
    const T& operator()(const T& x) const
    { return x;  }
};

template<std::size_t S>
struct ls_zeros
{
static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<(S >> 1u)>::value);
};

template<>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
    static const std::size_t value = 0;
};

template <typename T> struct unvoid { typedef T type; 
};
template <> struct unvoid<void> { struct type { }; 
};
template <> struct unvoid<const void> { struct type { }; 
};

} //namespace container_detail 
} //namespace container 
} //namespace boost 

#endif   //#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

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//
//
>Status Boost_1_0_0_0.tar.gz

#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
#define BOOST_INTERPROCESS_DETAIL_MPL_HPP
#if (defined _MSC_VER) && (_MSC_VER >= 1200)
#  pragma once
#endif
#include <cstddef>
namespace boost {
namespace interprocess {
namespace ipcdetail {

//include <cstddef>

namespace boost {
namespace interprocess {
namespace ipcdetail {
template <class T, T val>
struct integral_constant
{
    static const T value = val;
    typedef integral_constant<T,val> type;
};

template< bool C_ >
struct bool_ : integral_constant<bool, C_>
{
    static const bool value = C_;
};

typedef bool_<true>        true_;
typedef bool_<false>       false_;

typedef true_  true_type;
typedef false_ false_type;

typedef char yes_type;
struct no_type
{
    char padding[8];
};

template <bool B, class T = void>
struct enable_if_c { 
    typedef T type;
};

template <class T>
struct enable_if_c<false, T> {};

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {};

template <class Cond, class T = void>
struct disable_if : public enable_if_c<!Cond::value, T> {};

template <class T, class U>
class is_convertible
{
    typedef char true_t;
    class false_t { char dummy[2]; }; 
    static true_t dispatch(U);
    static false_t dispatch(...);
    static T trigger();
public:
static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);
};

template<
    bool C
, typename T1
, typename T2
>
struct if_c
{
    typedef T1 type;
};

template<
    typename T1
, typename T2
>
struct if_c<false,T1,T2>
{
    typedef T2 type;
};

template<
    typename T1
, typename T2
, typename T3
>
struct if_
{
    typedef typename if_c<0 != T1::value, T2, T3>::type type;
};

template <class Pair>
struct select1st
//   : public std::unary_function<Pair, typename Pair::first_type>
{
    template<class OtherPair>
    const typename Pair::first_type& operator()(const OtherPair& x) const
    {  return x.first;  }

    const typename Pair::first_type& operator()(const typename Pair::first_type& x) const
    {  return x;  }
};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
// : public std::unary_function<T,T>
{
    typedef T type;
    const T& operator()(const T& x) const
    { return x; }
};

template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<S >> 1u>::value);
};

template<>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
    static const std::size_t value = 0;
};
} //namespace ipcdetail {
} //namespace interprocess {
} //namespace boost {

#include <boost/intrusive/detail/config_begin.hpp>
#include <cstddef>

#include <boost/intrusive/detail/config_begin.hpp>
#include <cstddef>

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//    http://www.boost.org/LICENSE_1_0.txt)
//
//

#include <boost/intrusive/detail/config_begin.hpp>
#include <cstddef>
namespace boost {
namespace intrusive {
namespace detail {

typedef char one;
struct two {one _[2];};

template< bool C_ >
struct bool_
{
    static const bool value = C_; 
};

typedef bool_<true>         true_;
typedef bool_<false>        false_;

typedef true_  true_type;
typedef false_ false_type;

typedef char yes_type;
struct no_type
{
    char padding[8];
};

template <bool B, class T = void>
struct enable_if_c {
    typedef T type;
};
template <class T>
struct enable_if_c<false, T> {}; 

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {}; 

template<class F, class Param>
struct apply
{
    typedef typename F::template apply<Param>::type type;
};

template <class T, class U>
class is_convertible 
{
    typedef char true_t;
    class false_t { char dummy[2]; }; 
}
static true_t dispatch(U);
static false_t dispatch(...);
static const T &trigger();
public:
static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);
};

template<
    bool C
>
struct if_c<false,T1,T2>
{
    typedef T2 type;
};

template<
    typename T1
>
struct if_c<true,T1,T2>
{
    typedef T1 type;
};

template<
    typename C
>
struct if_<
    typename if_c<0 != C::value, T1, T2>::type type;
};

template<
    bool C
>
struct eval_if_c<
    : if_c<C,F1,F2>::type
{
};

template<
    typename C
>
struct if_<
    typename if_c<0 != C::value, T1, T2>::type type;
};
struct eval_if
    : if_<C,T1,T2>::type
{};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
{
    typedef T type;
};

#if defined(BOOST_MSVC) || defined(__BORLANDC__)
#define BOOST_INTRUSIVE_TT_DECL __cdecl
#else
#define BOOST_INTRUSIVE_TT_DECL
#endif
#if defined(_MSC_EXTENSIONS) && !defined(__BORLAND__) && !defined(_WIN64) && !defined(UNDER_CE)
#define BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS
#endif

template <typename T>
struct is_unary_or_binary_function_impl
{  static const bool value = false;  };

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
#ifndef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R>
struct is_unary_or_binary_function_impl<R (*)(())>
{  static const bool value = true;  };

template <typename R>
struct is_unary_or_binary_function_impl<R (*)(...)>
{  static const bool value = true;  };
#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R>
struct is_unary_or_binary_function_impl<R (__stdcall*)()>
{  static const bool value = true;  };
#endif // _MANAGED
template <typename R>
struct is_unary_or_binary_function_impl<R (__fastcall*)()>
{  static const bool value = true;  };
#endif

template <typename R>
struct is_unary_or_binary_function_impl<R (__cdecl*)()>
{  static const bool value = true;  };

template <typename R>
struct is_unary_or_binary_function_impl<R (__cdecl*)(...)>
{  static const bool value = true;  };
#endif

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
#ifndef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

    template <typename R, class T0>
    struct is_unary_or_binary_function_impl<R (*)(T0)>,
    {  static const bool value = true;  };

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (*)(T0...)>,
{  static const bool value = true;  };
#endif // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

    template <typename R, class T0>
    struct is_unary_or_binary_function_impl<R (__stdcall*)(T0)>,
    {  static const bool value = true;  };

#ifndef _MANAGED
    template <typename R, class T0>
    struct is_unary_or_binary_function_impl<R (__fastcall*)(T0)>,
    {  static const bool value = true;  };
#endif

    template <typename R, class T0>
    struct is_unary_or_binary_function_impl<R (__cdecl*)(T0)>,
    {  static const bool value = true;  };

    template <typename R, class T0>
    struct is_unary_or_binary_function_impl<R (__cdecl*)(T0...)>
    {  static const bool value = true;  };

#ifndef _MANAGED
    template <typename R, class T0>
    struct is_unary_or_binary_function_impl<R (__fastcall*)(T0)>,
    {  static const bool value = true;  };
#endif
{ static const bool value = true; };

#endif

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
#ifndef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (*)(T0, T1)>
{ static const bool value = true; };

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (*)(T0, T1...)>
{ static const bool value = true; };

#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__stdcall*)(T0, T1)>
{ static const bool value = true; };

#ifndef _MANAGED

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__fastcall*)(T0, T1)>
{ static const bool value = true; };
#endif

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0, T1...)>
{ static const bool value = true; };
#endif

template <typename T>
struct is_unary_or_binary_function_impl<T&>
{ static const bool value = false; };

template<typename T>
struct is_unary_or_binary_function
{ static const bool value = is_unary_or_binary_function_impl<T>::value; };

//boost::alignment_of yields to 10K lines of preprocessed code, so we
//need an alternative
template <typename T> struct alignment_of;

template <typename T>
struct alignment_of_hack
{
    char c;
    T t;
    alignment_of_hack();
};

template <unsigned A, unsigned S>
struct alignment_logic
{
    static const std::size_t value = A < S ? A : S;
};

template <typename T>
struct alignment_of
{
    static const std::size_t value = alignment_logic
    < sizeof(alignment_of_hack<T>) - sizeof(T), sizeof(T) >::value;
};

template <typename T, typename U>
struct is_same
{
    typedef char yes_type;
    struct no_type
    {
        char padding[8];
    };

template <typename V>
static yes_type is_same_tester(V*, V*);
static no_type is_same_tester(...);

static T *t;
static U *u;

static const bool value = sizeof(yes_type) == sizeof(is_same_tester(t, u));
};

template <typename T>
struct add_const
{
    typedef const T type;
};
template<typename T>
struct remove_const
{  typedef T type;  };

template<typename T>
struct remove_const<const T>
{  typedef T type;  };

template<typename T>
struct remove_cv
{  typedef T type;  };

template<typename T>
struct remove_cv<const T>
{  typedef T type;  };

template<typename T>
struct remove_cv<const volatile T>
{  typedef T type;  };

template<typename T>
struct remove_cv<volatile T>
{  typedef T type;  };

template<class T>
struct remove_reference
{
    typedef T type;
};

template<class T>
struct remove_reference<T&>
{
    typedef T type;
};

template<class Class>
class is_empty_class
{
    template<typename T>
    struct empty_helper_t1 : public T
    {
        empty_helper_t1();
        int i[256];
    };

    struct empty_helper_t2
```cpp
{ int i[256]; };

public:
static const bool value = sizeof(empty_helper_t1<Class>) == sizeof(empty_helper_t2);
};
template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1 + ls_zeros<(S>>1u)>::value);
};
template<>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
};
template<>
struct ls_zeros<1>
{
    static const std::size_t value = 0;
};
} //namespace intrusive
} //namespace boost

#include <boost/intrusive/detail/config_end.hpp>
#endif //BOOST_INTRUSIVE_DETAIL_MPL_HPP

Index: boost/mpl/print.hpp
--- boost/mpl/print.hpp	(revision 83411)
+++ boost/mpl/print.hpp(working copy)
@@ -45,22 +45,21 @@
    #: mpl::identity<T>
    #if defined(__MWERKS__)
        , aux::print_base
-    +#endif
+    +#endif
    {
    #if defined(BOOST_MSVC)
        enum { n = sizeof(T) + -1 };  
    #elif defined(_MWERKS_)  
        void f(int);
    -    #else
    -    enum {
```
- n =
- # if defined(__EDG_VERSION__)
- aux::dependent_unsigned<T>::value > -1
- # else
- sizeof(T) > -1
- # endif
- #endif
+ #elif defined(__EDG_VERSION__)
+ enum { n = aux::dependent_unsigned<T>::value > -1 }
+ #elif defined(BOOST_GCC)
+ enum { n1 }
+ enum { n2 }
+ enum { n = n1 != n2 }
+ #else
+ enum { n = sizeof(T) > -1 }
+ #endif

# if defined(BOOST_MSVC)

1.103 boost-serialization 1.53.0

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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

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Sony News specific code. Al Dossier provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(agg@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn’t made it into the released version of the collector, yet.) This package was debianized by Vladimir Prus <ghost@cs.msu.su> on Wed, 17 July 2002, 19:27:00 +0400.

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1.105 boost-system 1.53.0 :27.el7

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<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE article PUBLIC "-//Boost//DTD BoostBook XML V1.0//EN"
"http://www.boost.org/tools/boostbook/dtd/boostbook.dtd">
<article id="copyright_test" last-revision="DEBUG MODE Date: 2000/12/20 12:00:00 $"
xmlns:xi="http://www.w3.org/2001/XInclude">
<title>Copyright Test</title>
<articleinfo>
<copyright>
<year>1963</year> <year>1964</year> <year>1965</year> <holder>Jane Doe</holder>
</copyright>
<copyright>
<year>2018</year> <holder>Joe Blow, John Coe</holder>
</copyright>
<copyright>
<year>1977</year> <year>1985</year> <holder>Someone else</holder>
</copyright>
</articleinfo>
<article>
[article Copyright Test
[quickbook 1.5]
[copyright 1977,1985 Someone else]
]```
Maybe this should pass?
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HISTORY -

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David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)
This package was debianized by Vladimir Prus <ghost@cs.msu.su> on Wed, 17 July 2002, 19:27:00 +0400.

Copyright:

+/+
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+/+

This is Release 2.4 of Jam/MR, a make-like program.

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(See accompanying file LICENSE_1_0.txt or http://www.boost.org/LICENSE_1_0.txt)
/*
 * Copyright (c) 2003 Dr John Maddock
 * Use, modification and distribution is subject to the
 * Boost Software License, Version 1.0. (See accompanying file
 * LICENSE_1_0.txt or copy at http://www.boost.org/LICENSE_1_0.txt)
 * */
#include "licence_info.hpp"
#include "bcp_imp.hpp"
#include "fileview.hpp"
#include <fstream>
#include <iomanip>
#include <cstring>
#include <stdexcept>
#include <boost/lexical_cast.hpp>
#include <boost/filesystem/operations.hpp>
#include <boost/throw_exception.hpp>

// split_path is a small helper for outputting a path name,
// complete with a link to that path:
//
struct split_path
{
    const fs::path& root;
    const fs::path& file;
    split_path(const fs::path& r, const fs::path& f)
    : root(r), file(f){}
private:
    split_path& operator=(const split_path&);
};

std::ostream& operator<<(std::ostream& os, const split_path& p)
{
    os << "<a href="" << (p.root / p.file).string() << ">" << p.file.string() << "</a>";
    return os;
}

std::string make_link_target(const std::string& s)
{
    // convert an arbitrary string into something suitable
    // for an <a> name:
    std::string result;
    for(unsigned i = 0; i < s.size(); ++i)
    {
        result.append(1, static_cast<std::string::value_type>(std::isalnum(s[i]) ? s[i] : '_'));
    }
    return result;
}

void bcp_implementation::output_license_info()
{
    std::pair<const license_info*, int> licenses = get_licenses();
std::map<int, license_data>::const_iterator i, j;
i = m_license_data.begin();
j = m_license_data.end();

std::ofstream os(m_dest_path.string().c_str());
if(!os)
{
    std::string msg("Error opening ");
    msg += m_dest_path.string();
    msg += " for output.";
    std::runtime_error e(msg);
    boost::throw_exception(e);
}

os <<
"<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN"">
<html>
<head>
<title>Boost Licence Dependency Information</title>
</head>
<body>
<H1>Boost Licence Dependency Information</H1>
if(m_module_list.size() == 1)
{
    os << " for " << *(m_module_list.begin());
}

os <<
"<H2>Contents</h2>
<pre><a href="#input">Input Information</a>
"; if(!m_bsl_summary_mode)
    os << <a href="#summary">Licence Summary</a>
; os << <a href="#details">Licence Details</a>
;
while(i != j)
{
    // title:
    os << "   <A href="#" " << make_link_target(licenses.first[i->first].license_name)
    << ">" << licenses.first[i->first].license_name << "</a>\n";
    ++i;
}

os << "<a href="#files">Files with no recognised license</a>\n"
"<a href="#authors">Files with no recognised copyright holder</a>\n"
if(!m_bsl_summary_mode)
{
    os << 
    "Moving to the Boost Software License...\n"
    " <a href="#bsl-converted">Files that can be automatically converted to the Boost Software License</a>\n"
    " <a href="#to-bsl">Files that can be manually converted to the Boost Software License</a>\n"
    " <a href="#not-to-bsl">Files that can NOT be moved to the Boost Software License</a>\n"
    "<a href="#need-bsl-authors">Authors we need to move to the Boost Software License</a>\n"
    "<a href="#copyright">Copyright Holder Information</a>\n"
}

os <<
"<a href="#depend">File Dependency Information</a>\n"
"</pre>"

//
// input Information:
//
// os << "<a name="input"></a><h2>Input Information</h2>
if(m_scan_mode)
    os << "<P>The following files were scanned for boost dependencies:<BR>
else
    os << "<P>The following Boost modules were checked:<BR>

std::list<std::string>::const_iterator si = m_module_list.begin();
std::list<std::string>::const_iterator sj = m_module_list.end();
while(si != sj)
{
    os << *si << "<BR>";
    ++si;
}

os << "</p><p>The Boost path was: <code>" << m_boost_path.string() << "</code></P>"

//
// extract the boost version number from the boost directory tree,
// not from this app (which may have been built from a previous
// version):
//
fileview version_file(m_boost_path / "boost/version.hpp");
static const boost::regex version_regex(
    "^[[:blank:]]*[#][[:blank:]]*define[[:blank:]]+BOOST_VERSION[[:blank:]]+(\d+)\);
boost::cmatch what;
if(boost::regex_search(version_file.begin(), version_file.end(), what, version_regex))
{
    int version = boost::lexical_cast<int>(what.str(1));
    os << "<p>The Boost version is: " << version / 100000 << "." << version / 100 % 100 << "." << version % 100 << "</P>\n";}

// output each license:
//
i = m_license_data.begin();
j = m_license_data.end();
if(!m_bsl_summary_mode)
{
  // start with the summary:
  //
  os << "<a name="summary"></a><h2>Licence Summary</h2>\n";
  while(i != j)
  {
    // title:
    os << "<H3>" << licenses.first[i->first].license_name << "</H3>\n";
    // license text:
    os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
    // Copyright holders:
    os << "<P>This license is used by " << i->second.authors.size() << " authors and " << i->second.files.size() << " files</P>";
    os << "(see details)</a>";
    os << "</BLOCKQUOTE>\n";
    ++i;
  }
  //
  // and now the details:
  //
i = m_license_data.begin();
j = m_license_data.end();
int license_index = 0;
while(i != j)
{
  // title:
  os << "<H3><A name="" << make_link_target(licenses.first[i->first].license_name) << ""/></A>" << licenses.first[i->first].license_name << "</H3>\n";
  // license text:
  os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
  if(!m_bsl_summary_mode || (license_index >= 3))
  {
    // Copyright holders:
    os << "<P>This license is used by the following " << i->second.authors.size() << " copyright holders:</P>";
    std::set<std::string>::const_iterator x, y;
x = i->second.authors.begin();
  }
y = i->second.authors.end();
while(x != y)
{
    os << *x << "<BR>
";
    ++x;
}

os << "</P></BLOCKQUOTE><\n";
// Files using this license:
os << "<P>This license applies to the following " << i->second.files.size() << " files:
</P><BLOCKQUOTE><P>
std::set<fs::path, path_less>::const_iterator m, n;
m = i->second.files.begin();
n = i->second.files.end();
while(m != n)
{
    os << split_path(m_boost_path, *m) << "<br>
";
    ++m;
}
os << "</P></BLOCKQUOTE><\n";
}
else
{
    os << "<P>This license is used by " << i->second.authors.size() << " authors (list omitted for brevity).</P>\n";
    os << "<P>This license applies to " << i->second.files.size() << " files (list omitted for brevity).</P>\n";
    ++license_index;
    ++i;
}
//
// Output list of files not found to be under license control:
//
os << "<h2><a name="files"></a>Files With No Recognisable Licence</h2><\n"
"<P>The following " << m_unknown_licenses.size() << " files had no recognisable license information:</P><BLOCKQUOTE><P>\n";
std::set<fs::path, path_less>::const_iterator i2, j2;
i2 = m_unknown_licenses.begin();
j2 = m_unknown_licenses.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "<br>
";
    ++i2;
}
os << "</P></BLOCKQUOTE>";
//
// Output list of files with no found copyright holder:
//
os << "<h2><a name="authors"></a>Files With No Recognisable Copyright Holder</h2><\n"
"<P>The following " << m_unknown_authors.size() << " files had no recognisable copyright
holder:

i2 = m_unknown_authors.begin();
j2 = m_unknown_authors.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "<br>
    ++i2;
}
os << "</p></BLOCKQUOTE>

if(!m_bsl_summary_mode)
{
    // Output list of files that have been moved over to the Boost
    // Software License, along with enough information for human
    // verification.
    //
    os << "<h2><a name="bsl-converted"></a>Files that can be automatically converted to the Boost Software
License</h2><br>
    " << m_converted_to_bsl.size() << " files can be automatically converted to the Boost Software License, but require manual verification before they can be committed to CVS:";
}

typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>
::const_iterator conv_iterator;
conv_iterator i = m_converted_to_bsl.begin(),
ie = m_converted_to_bsl.end();
int file_num = 1;
while (i != ie)
{
    os << "[" << file_num << "] File: <tt>" << split_path(m_boost_path, i->first)
    << "<tt><br><table border="1"'><tr><td><pre>
    " << i->second.first << "</pre></td><tr><td><pre>
    " << i->second.second << "</pre></td><tr><td><table><tr><td>
    ++i;
    ++file_num;
}

os << "<h2><a name="to-bsl"></a>Files that could be converted to the Boost Software License</h2>
" << m_can_migrate_to_bsl.size() << " files could be manually converted to the Boost Software License, but have not yet been:";

i2 = m_can_migrate_to_bsl.begin();
j2 = m_can_migrate_to_bsl.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "<br>

++i2;
}
os << "</p></BLOCKQUOTE>";
//
// Output list of files that can not be moved over to the Boost Software License
//
os << "<h2><a name="not-to-bsl"></a>Files that can NOT be converted to the Boost Software License</h2>
";
<p>The following " << m_cannot_migrate_to_bsl.size() << " files cannot be converted to the Boost Software License because we need the permission of more authors:</p>
i2 = m_cannot_migrate_to_bsl.begin();
j2 = m_cannot_migrate_to_bsl.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "\n";
    ++i2;
}
os << "</p></BLOCKQUOTE>";
//
// Output list of authors that we need permission for to move to the BSL
//
os << "<h2><a name="need-bsl-authors"></a>Authors we need for the BSL</h2>
";
<p>Permission of the following authors is needed before we can convert to the Boost Software License. The list of authors that have given their permission is contained in "more/blanket-permission.txt":</p>
std::copy(m_authors_for_bsl_migration.begin(), m_authors_for_bsl_migration.end(),
std::ostream_iterator<std::string>(os, "\n"));
os << "</p></BLOCKQUOTE>";
//
// output a table of copyright information:
//
os << "<H2><a name="copyright"></a>Copyright Holder Information</H2><table border="1">";
std::map<std::string, std::set<fs::path, path_less> >::const_iterator ad, ead;
ad = m_author_data.begin();
ead = m_author_data.end();
while(ad != ead)
{
    os << "<tr><td>" << ad->first << "</td><td>
    std::set<fs::path, path_less>::const_iterator fi, efi;
    fi = ad->second.begin();
    efi = ad->second.end();
    while(fi != efi)
    {
        os << split_path(m_boost_path, *fi) << " ";
        ++fi;
    }
    os << "</td><tr>\n";
    ++ad;
}
// output file dependency information:
//
// os << "<H2><a name="depend"></a>File Dependency Information</H2><BLOCKQUOTE><pre>
std::map<fs::path, fs::path, path_less>::const_iterator dep, last_dep;
std::set<fs::path, path_less>::const_iterator fi, efi;
fi = m_copy_paths.begin();
efi = m_copy_paths.end();
// if in summary mode, just figure out the "bad" files and print those only:
std::set<fs::path, path_less> bad_paths;
if(m_bsl_summary_mode)
{
  bad_paths.insert(m_unknown_licenses.begin(), m_unknown_licenses.end());
  bad_paths.insert(m_unknown_authors.begin(), m_unknown_authors.end());
  bad_paths.insert(m_can_migrate_to_bsl.begin(), m_can_migrate_to_bsl.end());
  bad_paths.insert(m_cannot_migrate_to_bsl.begin(), m_cannot_migrate_to_bsl.end());
  typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>
      ::const_iterator conv_iterator;
  conv_iterator i = m_converted_to_bsl.begin(),
      ie = m_converted_to_bsl.end();
  while(i != ie)
  {
    bad_paths.insert(i->first);
    ++i;
  }
  fi = bad_paths.begin();
efi = bad_paths.end();
os << "<P>For brevity, only files not under the BSL are shown</P>\n";
}
while(fi != efi)
{
  os << split_path(m_boost_path, *fi);
  dep = m_dependencies.find(*fi);
  last_dep = m_dependencies.end();
  std::set<fs::path, path_less> seen_deps;
  if (dep != last_dep)
    while(true)
    {
      os << " - > ";
      if(fs::exists(m_boost_path / dep->second))
        os << split_path(m_boost_path, dep->second);
      else if fs::exists(dep->second)
        os << split_path(fs::path(), dep->second);
      else
        os << split_path(fs::path(), *fi);
os << dep->second.string();
if(seen_deps.find(dep->second) != seen_deps.end())
{
    os << " <I>(Circular dependency!</I>)";
    break; // circular dependency!!!
}
seen_deps.insert(dep->second);
last_dep = dep;
dep = m_dependencies.find(dep->second);
if((dep == m_dependencies.end()) || (0 == compare_paths(dep->second, last_dep->second)))
    break;
}

Index: boost/mpl/print.hpp
===================================================================
--- boost/mpl/print.hpp	(revision 83411)
+++ boost/mpl/print.hpp	(working copy)
@@ -45,22 +45,21 @@
    #if defined(__MWERKS__)
    -#endif
    +#endif
{
#if defined(BOOST_MSVC)
    enum { n = sizeof(T) + -1 };
#elif defined(__MWERKS__)
    void f(int);
#else
    enum {
    #if defined(__EDG_VERSION__)
typedef bool_<true>        true_;
typedef bool_<false>       false_;
typedef true_  true_type;
typedef false_ false_type;
typedef char yes_type;
struct no_type
{
    char padding[8];
};
template <bool B, class T = void>
struct enable_if_c 
{
    typedef T type;
};
template <class T>
struct enable_if_c<false, T> {};
template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {};
template<class F, class Param>
struct apply
{
    typedef typename F::template apply<Param>::type type;
};
template <class T, class U>
class is_convertible
{
    typedef char true_t;
    class false_t { char dummy[2]; }; static true_t dispatch(U);
    static false_t dispatch(...);
    static const T &trigger();
    public:
    static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);
};
template<
    bool C
    , typename T1
    , typename T2
>
struct if_c
typedef T1 type;
};

template<
    typename T1
 , typename T2
>
struct if_c<false,T1,T2>
{
    typedef T2 type;
};

template<
    typename C
 , typename T1
 , typename T2
>
struct if_
{
    typedef typename if_c<0 != C::value, T1, T2>::type type;
};

template<
    bool C
 , typename F1
 , typename F2
>
struct eval_if_c
    : if_c<C,F1,F2>::type
{};

template<
    typename C
 , typename T1
 , typename T2
>
struct eval_if
    : if_<C,T1,T2>::type
{};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
{
    typedef T type;
};
#if defined(BOOST_MSVC) || defined(__BORLANDC_)
#define BOOST_INTRUSIVE_TTDECL __cdecl
#else
#define BOOST_INTRUSIVE_TTDECL
#endif

#if defined(_MSC_EXTENSIONS) && !defined(__BORLAND__) && !defined(_WIN64) && !defined(UNDER_CE)
#define BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS
#endif

template<typename T>
struct is_unary_or_binary_function_impl
{
    static const bool value = false;
};

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
#ifndef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template<typename R>
struct is_unary_or_binary_function_impl<R (*)()>
{
    static const bool value = true;
};

template<typename R>
struct is_unary_or_binary_function_impl<R (*)(...>)
{
    static const bool value = true;
};
#endif // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template<typename R>
struct is_unary_or_binary_function_impl<R (__stdcall*)()>
{
    static const bool value = true;
};

#ifndef _MANAGED
template<typename R>
struct is_unary_or_binary_function_impl<R (__fastcall*)()>
{
    static const bool value = true;
};
#endif

#define _MANAGED

template<typename R>
struct is_unary_or_binary_function_impl<R (__cdecl*)()>
{
    static const bool value = true;
};

#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template<typename R>
struct is_unary_or_binary_function_impl<R (__cdecl*)(...)>
{
    static const bool value = true;
};

#endif
#endif

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
#ifndef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (*)(T0)>

{  static const bool value = true;  };

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (*)(T0...)>

{  static const bool value = true;  };

#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (__stdcall*)(T0)>

{  static const bool value = true;  };

#ifndef _MANAGED

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (__fastcall*)(T0)>

{  static const bool value = true;  };

#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

#endif

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
#ifndef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (*)(T0, T1)>

{  static const bool value = true;  };

template <typename R, class T0, class T1>

{  static const bool value = true;  };

}}}
struct is_unary_or_binary_function_impl<R (*)(T0, T1...)>  
{  static const bool value = true;  };

#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__stdcall*)(T0, T1)>
{  static const bool value = true;  };

#ifndef _MANAGED

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__fastcall*)(T0, T1)>
{  static const bool value = true;  };
#endif

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0, T1)>
{  static const bool value = true;  };

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0, T1...)>
{  static const bool value = true;  };

#endif

template <typename T>
struct is_unary_or_binary_function_impl<T&>
{  static const bool value = false;  };

template <typename T>
struct is_unary_or_binary_function
{  static const bool value = is_unary_or_binary_function_impl<T>::value;  };

//boost::alignment_of yields to 10K lines of preprocessed code, so we
//need an alternative

template <typename T> struct alignment_of;

template <typename T>
struct alignment_of_hack
{
    char c;
    T t;
    alignment_of_hack();
};

template <unsigned A, unsigned S>
struct alignment_logic
static const std::size_t value = A < S ? A : S;

};

template< typename T >
struct alignment_of
{
    static const std::size_t value = alignment_logic
        < sizeof(alignment_of_hack<T>) - sizeof(T)
        , sizeof(T)
        >::value;
};

};

};

};

};

};

};

};

};

};

};

};

};

};

};

};

};

};

};

};

};

};

};

};

};

};

};
template<typename T>
struct remove_cv<const T>
{
  typedef T type;
};

template<typename T>
struct remove_cv<const volatile T>
{
  typedef T type;
};

template<typename T>
struct remove_cv<volatile T>
{
  typedef T type;
};

template<class T>
struct remove_reference
{
  typedef T type;
};

template<class T>
struct remove_reference<T&>
{
  typedef T type;
};

template<class Class>
class is_empty_class
{
  template <typename T>
  struct empty_helper_t1 : public T
  {
    empty_helper_t1();
    int i[256];
  };

  struct empty_helper_t2
  { int i[256]; };

  public:
  static const bool value = sizeof(empty_helper_t1<Class>) == sizeof(empty_helper_t2);
};

template<std::size_t S>
struct ls_zeros
{
  static const std::size_t value = (S & std::size_t(1)) ? 0 : (1 + ls_zeros<(S>>1u)>::value);
};

template<>
struct ls_zeros<0>
{
  static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
  static const std::size_t value = 0;
};
} //namespace detail
} //namespace intrusive
} //namespace boost

#include <boost/intrusive/detail/config_end.hpp>

//////////////////////////////////////////////////////////////////////////////
// (C) Copyright Ion Gaztanaga 2005-2012.
//
// Distributed under the Boost Software License, Version 1.0.
// (See accompanying file LICENSE_1_0.txt or copy at
// http://www.boost.org/LICENSE_1_0.txt)
//
//
/////////////////////////////////////////////////////////////////////////////

#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
#define BOOST_INTERPROCESS_DETAIL_MPL_HPP

#if (defined _MSC_VER) && (_MSC_VER >= 1200)
  #pragma once
#endif

#include <cstddef>

namespace boost {
  namespace interprocess {
    namespace ipcdetail {
      template <class T, T val>
      struct integral_constant
      {
        static const T value = val;
        typedef integral_constant<T,val> type;
    

```cpp
// Open Source Used In Application Centric Infrastructure Service Engine (ACI-SE) 1.1

};

template< bool C_ >
struct bool_< bool C_ >
{
    static const bool value = C_;  
};

typedef bool_<true>        true_;
typedef bool_<false>       false_;

typedef true_ true_type;
typedef false_ false_type;

typedef char yes_type;
struct no_type
{
    char padding[8];
};

template <bool B, class T = void>
struct enable_if_c {
    typedef T type;
};
template <class T>
struct enable_if_c<false, T> {};

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {};

template <class Cond, class T = void>
struct disable_if : public enable_if_c<!Cond::value, T> {};

template <class T, class U>
class is_convertible
{
    typedef char true_t;
class false_t { char dummy[2]; };  
static true_t dispatch(U);
static false_t dispatch(...);
static T trigger();
public:
    static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);
};

template<
    bool C
};
```
struct if_c
{
    typedef T1 type;
};

template<
    typename T1
    , typename T2
>
struct if_c<false,T1,T2>
{
    typedef T2 type;
};

template<
    typename T1
    , typename T2
    , typename T3
>
struct if_
{
    typedef typename if_c<0 != T1::value, T2, T3>::type type;
};

template <class Pair>
struct select1st
//   : public std::unary_function<Pair, typename Pair::first_type>
{
    template<class OtherPair>
    const typename Pair::first_type& operator()(const OtherPair& x) const
    {  return x.first;   }

    const typename Pair::first_type& operator()(const typename Pair::first_type& x) const
    {  return x;   }
};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
//   : public std::unary_function<T,T>
{
    typedef T type;
    const T& operator()(const T& x) const
    {  return x;  }
};
template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<(S >> 1u)>::value);
};

template<>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
    static const std::size_t value = 0;
};

}  //namespace ipcdetail {
}  //namespace interprocess {
}  //namespace boost {

}  //namespace boost {

#if (defined _MSC_VER) && (_MSC_VER >= 1200)
#pragma once
#endif  //#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP

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// http://www.boost.org/LICENSE_1_0.txt)
//
//////////////////////////////////////////////////////////////////////////////

#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
#define BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

#include <cstddef>

namespace boost {
namespace container {


namespace container_detail {

    template <class T, T val>
    struct integral_constant
    {
        static const T value = val;
        typedef integral_constant<T,val> type;
    };

    template< bool C_ >
    struct bool_ : integral_constant<bool, C_>
    {
        static const bool value = C_;
        operator bool() const { return bool_::value; }
    };

    typedef bool_<true>        true_;
    typedef bool_<false>       false_;

    typedef true_  true_type;
    typedef false_ false_type;

    typedef char yes_type;
    struct no_type
    {
        char padding[8];
    };

    template <bool B, class T = void>
    struct enable_if_c
    {
        typedef T type;
    };

    template <class T>
    struct enable_if_c<false, T> {};

    template <class Cond, class T = void>
    struct enable_if : public enable_if_c<Cond::value, T> {};

    template <class Cond, class T = void>
    struct disable_if : public enable_if_c<!Cond::value, T> {};

    template <bool B, class T = void>
    struct disable_if_c : public enable_if_c<!B, T> {};

    template <class T, class U>
    class is_convertible
    {
    }
typedef char true_t;
class false_t { char dummy[2]; }; static true_t dispatch(U);
static false_t dispatch(...);
static T trigger();

public:
enum { value = sizeof(dispatch(trigger())) == sizeof(true_t) }; }

template<
  bool C
  , typename T1
  , typename T2
>
struct if_c
{
  typedef T1 type;
};

template<
  typename T1
  , typename T2
>
struct if_c<false,T1,T2>
{
  typedef T2 type;
};

template<
  typename T1
  , typename T2
  , typename T3
>
struct if_
{
  typedef typename if_c<0 != T1::value, T2, T3>::type type;
};

template <class Pair>
struct select1st
  : public std::unary_function<Pair, typename Pair::first_type>
{
  template<class OtherPair>
  const typename Pair::first_type& operator()(const OtherPair& x) const
  { return x.first; }

  const typename Pair::first_type& operator()(const typename Pair::first_type& x) const
// identity is an extension: it is not part of the standard.

template <class T>
struct identity
//@ : public std::unary_function<T,T>
{
    typedef T type;
    const T& operator()(const T& x) const
    { return x; }
};

template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<(S >> 1u)>::value);
};

template<>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
    static const std::size_t value = 0;
};

template <typename T> struct unvoid { typedef T type; }
template <> struct unvoid<void> { struct type { }; }
template <> struct unvoid<const void> { struct type { }; };
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============================================================================/
===========================================================================

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All the value based traits in this library conform to MPL's requirements for
an `<a href="../index.html" title="Chapter 1. Boost.TypeTraits">Integral
Constant</a>` type that includes a number of rather intrusive workarounds
for broken compilers.

Purely as an implementation detail, this means that `<code class="computeroutput">true_type</code>`
inherits from `<a href="../index.html" title="Chapter 1. Boost.TypeTraits">true_type</a> <code class="computeroutput">false_type</code>`.

```html
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=US-ASCII">
<title>MPL Interoperability</title>
<link rel="stylesheet" href="../../../../doc/src/boostbook.css" type="text/css">
<meta name="generator" content="DocBook XSL Stylesheets V1.77.1">
<link rel="home" href="../index.html" title="Chapter 1. Boost.TypeTraits">
<link rel="up" href="../index.html" title="Chapter 1. Boost.TypeTraits">
<link rel="prev" href="intrinsics.html" title="Support for Compiler Intrinsics">
<link rel="next" href="examples.html" title="Examples">
</head>
<body bgcolor="white" text="black" link="#0000FF" vlink="#840084" alink="#0000FF">
<table cellpadding="2" width="100%"><tr>
<td valign="top"><img alt="Boost C++ Libraries" width="277" height="86" src="../../../../boost.png"></td>
<td align="center"><a href="../../../../index.html">Home</a></td>
<td align="center"><a href="../../../../libs/libraries.htm">Libraries</a></td>
<td align="center"><a href="http://www.boost.org/users/people.html">People</a></td>
<td align="center"><a href="http://www.boost.org/users/faq.html">FAQ</a></td>
<td align="center"><a href="../../../../more/index.htm">More</a></td>
</tr></table>
<hr>
<div class="spirit-nav">
<a accesskey="p" href="intrinsics.html"><img src="../../../../doc/src/images/prev.png" alt="Prev"></a><a accesskey="u" href="../index.html"><img src="../../../../doc/src/images/up.png" alt="Up"></a><a accesskey="h" href="../index.html"><img src="../../../../doc/src/images/home.png" alt="Home"></a><a accesskey="n" href="examples.html"><img src="../../../../doc/src/images/next.png" alt="Next"></a>
</div>
<div class="section boost_typetraits_mpl">
<h1 class="title" style="clear: both"><a name="boost_typetraits.mpl"></a><a class="link" href="mpl.html" title="MPL Interoperability">MPL
Interoperability</a></h1>
<p>
All the value based traits in this library conform to MPL's requirements for
an `<a href="/libs/mpl/doc/refmanual/integral-constant.html" target="_top">Integral
Constant</a>` type that includes a number of rather intrusive workarounds
for broken compilers.
</p>
<p>Purely as an implementation detail, this means that `<code class="computeroutput">true_type</code>`
inherits from `<a href="/libs/mpl/doc/refmanual/bool.html" target="_top">true_type</a> <code class="computeroutput">false_type</code>`.
</p>
```
inherits from $boost\::mpl\::false_$, and $integral\_constant<T,v>$ inherits from $integral\_c<T,v>$ (provided $T$ is not $bool$)

| <div xmlns:rev="http://www.cs.rpi.edu/~gregod/boost/tools/doc/revision" width="100%"> </div>
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</p></td></tr></table>

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[section:mpl MPL Interoperability]
All the value based traits in this library conform to MPL's requirements for an [Integral Constant type](http://www.boost.org/doc/libs/1_42_00/libs/mpl/doc/refmanual/integral-constant.html); that includes a number of rather intrusive workarounds for broken compilers.

Purely as an implementation detail, this means that `__true_type` inherits from [`boost::mpl::true_`](http://www.boost.org/doc/libs/1_42_00/libs/mpl/doc/refmanual/bool.html), `__false_type` inherits from [`boost::mpl::false_`](http://www.boost.org/doc/libs/1_42_00/libs/mpl/doc/refmanual/bool.html), and `__integral_constant<T, v>` inherits from [`boost::mpl::integral_c<T,v>`](http://www.boost.org/doc/libs/1_42_00/libs/mpl/doc/refmanual/integral-c.html) (provided `T` is not `bool`)

[endsect]

Index: boost/mpl/print.hpp
--- boost/mpl/print.hpp(revision 83411)
+++ boost/mpl/print.hpp(working copy)
@@ -45,22 +45,21 @@:
 mpl::identity<T>
 #if defined(__MWERKS__)
-    aux::print_base
-#endif
+    aux::print_base
+#endif
{
#if defined(BOOST_MSVC)
   enum { n = sizeof(T) + -1 };
#elif defined(__MWERKS__)
-    enum {
-        n =
-# if defined(__EDG_VERSION__)           aux::dependent_unsigned<T>::value > -1
-# else
-        sizeof(T) > -1
-# endif
-        }
-    sizeof(T) > -1
-# endif
-    }
+    enum { n1 };
+    enum { n2 };
+    enum { n = n1 != n2 };
+    enum { n = sizeof(T) > -1 };
+    }
+elif defined(__EDG_VERSION__)
+    enum { n1 };
+    enum { n2 };
+    enum { n = n1 != n2 };
+    enum { n = sizeof(T) > -1 };
+    }
```
#if defined(BOOST_MSVC)
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Mathias Koch (mkoch - at - idesis.de 7 : email to boost-owner@lists.boost.org Sep 2007 13:20:09 +0200)

--- end ---
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<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE article PUBLIC "-/Boost//DTD BoostBook XML V1.0//EN"
"http://www.boost.org/tools/boostbook.dtd/boostbook.dtd">
<article id="copyright_test" last-revision="DEBUG MODE Date: 2000/12/20 12:00:00 $"
xmns:xsi="http://www.w3.org/2001/XInclude">
<title>Copyright Test</title>
<articleinfo>
  <copyright>
    <year>1963</year> <year>1964</year> <year>1965</year> <holder>Jane Doe</holder>
  </copyright>
  <copyright>
    <year>2018</year> <holder>Joe Blow, John Coe</holder>
  </copyright>
</articleinfo>
Maybe this should pass?
[article Invalid copyright years
[quickbook 1.5]
[copyright 2010-2001 Timequake man]
]
/*
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 * LICENSE_1_0.txt or copy at http://www.boost.org/LICENSE_1_0.txt)
 */

#include "licence_info.hpp"
#include "bcp_imp.hpp"
#include "fileview.hpp"
#include <fstream>
#include <iomanip>
#include <cstring>
#include <stdexcept>
#include <boost/lexical_cast.hpp>
#include <boost/filesystem/operations.hpp>
#include <boost/throw_exception.hpp>

//
// split_path is a small helper for outputting a path name,
// complete with a link to that path:
//
struct split_path
{
    const fs::path& root;
const fs::path& file;
split_path(const fs::path& r, const fs::path& f)
: root(r), file(f) {}
private:
split_path& operator=(const split_path&);
};

std::ostream& operator << (std::ostream& os, const split_path& p)
{
    os << "<a href="" << (p.root / p.file).string() << "">" << p.file.string() << "</a>";
    return os;
}

std::string make_link_target(const std::string& s)
{
    // convert an arbitrary string into something suitable
    // for an <a> name:
    std::string result;
    for(unsigned i = 0; i < s.size(); ++i)
    {
        result.append(1, static_cast<std::string::value_type>(std::isalnum(s[i]) ? s[i] : '_'));
    }
    return result;
}

void bcp_implementation::output_license_info()
{
    std::pair<const license_info*, int> licenses = get_licenses();

    std::map<int, license_data>::const_iterator i, j;
i = m_license_data.begin();
j = m_license_data.end();

    std::ofstream os(m_dest_path.string().c_str());
    if(!os)
    {
        std::string msg("Error opening ");
        msg += m_dest_path.string();
        msg += " for output."
        std::runtime_error e(msg);
        boost::throw_exception(e);
    }
    os <<
        "<!DOCTYPE HTML PUBLIC \"-//W3C//DTD HTML 4.0 Transitional//EN\">\n" "<html><\n" "<head><\n" "<title>Boost Licence Dependency Information";
if(m_module_list.size() == 1)
{
    os << " for " << *(m_module_list.begin());
}
os <<
"</title>
"</head>
"<body>
"<H1>Boost Licence Dependency Information</H1>
if(m_module_list.size() == 1)
{
    os << " for " << *(m_module_list.begin());
}
while(i != j)
{
    // title:
    os << "<A href=""#input"">Input Information</a>"
    "<\"">" << licenses.first[i->first].license_name << "</a>\n";
    ++i;
}

os << "<a href="#files">Files with no recognised license</a>"
"<a href="#authors">Files with no recognised copyright holder</a>"
if(!m_bsl_summary_mode)
{
    os << "Moving to the Boost Software License...
" "<a href="#bsl-converted">Files that can be automatically converted to the Boost Software License</a>\n" "<a href="#to-bsl">Files that can be manually converted to the Boost Software License</a>\n" "<a href="#not-to-bsl">Files that can NOT be moved to the Boost Software License</a>\n" "<a href="#need-bsl-authors">Authors we need to move to the Boost Software License</a>\n" "<a href="#copyright">Copyright Holder Information</a>\n";
}

os << "<a href="#depend">File Dependency Information</a>"
"</pre>

//
// input Information:
//
os << "<a name="input"></a><h2>Input Information</h2>
"
if(m_scan_mode)
    os << "<P>The following files were scanned for boost dependencies:<BR>"
else
    os << "<P>The following Boost modules were checked:<BR>"

std::list<std::string>::const_iterator si = m_module_list.begin();
std::list<std::string>::const_iterator sj = m_module_list.end();
while(si != sj)
    {
        os << *si << "<BR>
        ++si;
    }

os << "</p><p>The Boost path was: <code>" << m_boost_path.string() << "</code></P>"

//
// extract the boost version number from the boost directory tree,
// not from this app (which may have been built from a previous
// version):
//
// fileview version_file(m_boost_path / "boost/version.hpp"):
static const boost::regex version_regex(  
"^[[:blank:]]*#\[[:blank:]]*define[[:blank:]]+BOOST_VERSION[[:blank:]]+(\d+)\);
boost::cmatch what;
if(boost::regex_search(version_file.begin(), version_file.end(), what, version_regex))
    {
        int version = boost::lexical_cast<int>(what.str(1));
        os << "<p>The Boost version is: " << version / 100000 << "." << version / 100 % 1000 << "." << version % 100
        << "</P>\n";
    }

//
// output each license:
//
// i = m_license_data.begin();
// j = m_license_data.end();
// if(!m_bsl_summary_mode)
// {
//    // start with the summary:
//    //
//    os << "<a name="summary"></a><h2>Licence Summary</h2>
//    while(i != j)
//    {
//        // title:
//        os << "<H3>" << licenses.first[i->first].license_name << "</H3>\n";
//        // license text:
//        os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
//   }
// Copyright holders:
os << "<P>This license is used by " << i->second.authors.size() << " authors and " << i->second.files.size() << " files <a href="#" >> make_link_target(licenses.first[i->first].license_name) << \"> (see details)<a>");
os << "</P></BLOCKQUOTE>\n";
++i;
}
}
// and now the details:
//
i = m_license_data.begin();
j = m_license_data.end();
int license_index = 0;
os << "<a name="details"></a><h2>Licence Details</h2>
while(i != j)
{
    // title:
os << 
"<H3><A name="" >> make_link_target(licenses.first[i->first].license_name) << ""></A>" << licenses.first[i->first].license_name << "</H3>\n";
// license text:
os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
if(!m_bsl_summary_mode || (license_index >= 3))
{
    // Copyright holders:
os << "<P>This license is used by the following " << i->second.authors.size() << " copyright holders:</P>\n<BLOCKQUOTE>";
std::set<std::string>::const_iterator x, y;
x = i->second.authors.begin();
y = i->second.authors.end();
while(x != y)
{
os << *x << "<BR>\n";
++x;
}
os << "</P></BLOCKQUOTE>\n";
// Files using this license:
os << "<P>This license applies to the following " << i->second.files.size() << " files:</P>\n<BLOCKQUOTE>";
std::set<fs::path, path_less>::const_iterator m, n;
m = i->second.files.begin();
n = i->second.files.end();
while(m != n)
{
osexual_split_path(m_boost_path, *m) << "\n";
++m;
}
// Output list of files not found to be under license control:
//
const_iterator i2, j2;
i2 = m_unknown_licenses.begin();
j2 = m_unknown_licenses.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "\n";
    ++i2;
}

// Output list of files with no found copyright holder:
//
const_iterator i2, j2;
i2 = m_unknown_authors.begin();
j2 = m_unknown_authors.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "\n";
    ++i2;
}

// Output list of files that have been moved over to the Boost Software License, along with enough information for human verification.


The following " << m_converted_to_bsl.size() << " files can be automatically converted to the Boost Software License, but require manual verification before they can be committed to CVS:

```c++
if (!m_converted_to_bsl.empty())
{
typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>
::const_iterator conv_iterator;
conv_iterator i = m_converted_to_bsl.begin(),
ie = m_converted_to_bsl.end();
int file_num = 1;
while (i != ie)
{
  os << "<P>
" << file_num << "] File: <tt>" << split_path(m_boost_path, i->first)
<< "</tt><br>
<table border="1"><tr><td><pre>
<< i->second.first << "</pre></td><td><pre>
<< i->second.second << "</pre></td></tr></table><br>
"++i;
++file_num;
}
}
```

// Output list of files that could be moved over to the Boost Software License

```
//
```

```
The following " << m_can_migrate_to_bsl.size() << " files could be manually converted to the Boost Software License, but have not yet been:

```
i2 = m_can_migrate_to_bsl.begin();
j2 = m_can_migrate_to_bsl.end();
while(i2 != j2)
{
  os << split_path(m_boost_path, *i2) << "\n";
  ++i2;
}
```

```c++
```

// Output list of files that can NOT be converted to the Boost Software License

```
i2 = m_cannot_migrate_to_bsl.begin();
j2 = m_cannot_migrate_to_bsl.end();
while(i2 != j2)
{
  os << split_path(m_boost_path, *i2) << "\n";
  ++i2;
}
```

```
The following " << m_cannot_migrate_to_bsl.size() << " files cannot be converted to the Boost Software License because we need the permission of more authors:

```
i2 = m_cannot_migrate_to_bsl.begin();
j2 = m_cannot_migrate_to_bsl.end();
while(i2 != j2)
{
  os << split_path(m_boost_path, *i2) << "\n";
  ++i2;
}
```

```
```
```
// Output list of authors that we need permission for to move to the BSL

//

os << "<h2><a name="need-bsl-authors"></a>Authors we need for the BSL</h2>";

"<P>Permission of the following authors is needed before we can convert to the Boost Software License. The list of authors that have given their permission is contained in <code>more/blanket-permission.txt</code>.</P>

std::copy(m_authors_for_bsl_migration.begin(), m_authors_for_bsl_migration.end(),
          std::ostream_iterator<std::string>(os, "<br>"));

os << "</p></BLOCKQUOTE>";

//

// output a table of copyright information:

//

os << "<H2><a name="copyright"></a>Copyright Holder Information</h2><table border="1">";

std::map<std::string, std::set<fs::path, path_less> >::const_iterator ad, ead;
ad = m_author_data.begin();
ead = m_author_data.end();
while(ad != ead)
{
    os << "<tr><td>" << ad->first << "</td><td>";

    std::set<fs::path, path_less>::const_iterator fi, efi;
    fi = ad->second.begin();
    efi = ad->second.end();
    while(fi != efi)
    {
        os << split_path(m_boost_path, *fi) << " ";
        ++fi;
    }
    os << "</td></tr><br>
    ++ad;
}

os << "</table>";

//

// output file dependency information:

//

os << "<H2><a name="depend"></a>File Dependency Information</h2><BLOCKQUOTE><pre>
std::map<fs::path, fs::path, path_less> ::const_iterator dep, last_dep;
std::set<fs::path, path_less> ::const_iterator fi, efi;
fi = dep->second.begin();
efi = dep->second.end();
while(fi != efi)
{
    os << "<tr><td>" << fi << "</td><td>";

    std::set<fs::path, path_less> ::const_iterator bad_paths;
    bad_paths.insert(m_unknown_licenses.begin(), m_unknown_licenses.end());
    bad_paths.insert(m_unknown_authors.begin(), m_unknown_authors.end());
bad_paths.insert(m_can_migrate_to_bsl.begin(), m_can_migrate_to_bsl.end());
bad_paths.insert(m_cannot_migrate_to_bsl.begin(), m_cannot_migrate_to_bsl.end());

typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>::const_iterator conv_iterator;
conv_iterator i = m_converted_to_bsl.begin(),
ie = m_converted_to_bsl.end();
while(i != ie)
{
    bad_paths.insert(i->first);
    ++i;
}
fi = bad_paths.begin();
efi = bad_paths.end();
os << "<P>For brevity, only files not under the BSL are shown</P>\n";
}
while(fi != efi)
{
    os << split_path(m_boost_path, *fi);
    dep = m_dependencies.find(*fi);
    last_dep = m_dependencies.end();
    std::set<fs::path, path_less> seen_deps;
    if (dep != last_dep)
        while(true)
        {
            os << " -> ";
            if(fs::exists(m_boost_path / dep->second))
                os << split_path(m_boost_path, dep->second);
            else if(fs::exists(dep->second))
                os << split_path(fs::path(), dep->second);
            else
                os << dep->second.string();
            if(seen_deps.find(dep->second) != seen_deps.end())
                {
                    os << " <I>(Circular dependency!)</I>";
                    break; // circular dependency!!
                }
            seen_deps.insert(dep->second);
            last_dep = dep;
            dep = m_dependencies.find(dep->second);
            if((dep == m_dependencies.end()) || (0 == compare_paths(dep->second, last_dep->second)))
                break;
        }
    os << "\n";
    ++fi;
}
os << "</pre></BLOCKQUOTE>\n";

os << "</body></html>";
if(!os)
{
    std::string msg("Error writing to ");
    msg += m_dest_path.string();
    msg += ";
    std::runtime_error e(msg);
    boost::throw_exception(e);
}

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This is an attempt to acknowledge early contributions to the garbage
collector. Later contributions should instead be mentioned in
README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the current typed allocation facility.  (His dynamic type inference code hasn’t made it into the released version of the collector, yet.)
- implemented specific strategy or algorithm e.g. intersections
3) Examples -> might take sole copyright
4) Tests -> might take sole copyright
5) Docs -> might take sole copyright
6) Utilities e.g. converters -> might take sole copyright

The copyright note for other (source) files as .py, Jamfiles, etc is similar and comments are changed accordingly.

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<section id="date_time.license">
<title>Boost Date-Time Library License</title>
<bridgehead renderas="sect2">Boost Date-Time Library License</bridgehead>
<!--ulink url="../../../index.htm">
<imagedata align="left"
  format="GIF"
  fileref="../../../boost.png"
  alt="C++ Boost" />
<!--ulink-->
<!--hr /-->
<para>
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</para>
<!--hr /-->
<ulink url="mailto:jeff@crystalclearsoftware.com">Jeff Garland</ulink>
All the value based traits in this library conform to MPL's requirements for an Integral Constant type: that includes a number of rather intrusive workarounds for broken compilers.

Purely as an implementation detail, this means that `__true_type` inherits from `boost::mpl::true_`, `__false_type` inherits from `boost::mpl::false_`, and `__integral_constant<T,v>` inherits from `boost::mpl::integral_c<T,v>` (provided `T` is not `bool`).
All the value-based traits in this library conform to MPL's requirements for an Integral Constant type: that includes a number of rather intrusive workarounds for broken compilers.

Purely as an implementation detail, this means that `<code class="computeroutput">true_type</code>` inherits from `<a href="/libs/mpl/doc/refmanual/bool.html" target="_top">boost</a><code class="computeroutput">mpl</code><code class="computeroutput">false_type</code>` inherits from `<a href="/libs/mpl/doc/refmanual/bool.html" target="_top">boost</a><code class="computeroutput">mpl</code> and `<code class="computeroutput">integral_constant</code>` inherits from `<a href="/libs/mpl/doc/refmanual/integral-c.html" target="_top">boost</a><code class="computeroutput">mpl</code>` (provided `<code class="computeroutput">T</code>` is not `<code class="computeroutput">bool</code>`).


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#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
#define BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

#if (defined _MSC_VER) && (_MSC_VER >= 1200)
#pragma once
#endif

#include <cstddef>

namespace boost {
namespace container {
namespace container_detail {

template <class T, T val>
struct integral_constant {

static const T value = val;

};

};
};
};

#endif //BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
typedef integral_constant<T, val> type;
;

template< bool C_ >
struct bool_ : integral_constant<bool, C_>
{
    static const bool value = C_;
    operator bool() const { return bool_::value; }
};

typedef bool_<true>    true_;
typedef bool_<false>   false_;

typedef true_  true_type;
typedef false_ false_type;

typedef char yes_type;
struct no_type
{
    char padding[8];
};

template <bool B, class T = void>
struct enable_if_c {
    typedef T type;
};

template <class T>
struct enable_if_c<false, T> { };  

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> { };  

template <class Cond, class T = void>
struct disable_if : public enable_if_c<!Cond::value, T> { };  

template <bool B, class T = void>
struct disable_if_c : public enable_if_c<!B, T> { };  

template <class T, class U>
class is_convertible
{
    typedef char true_t;
    class false_t { char dummy[2]; };  
    static true_t dispatch(U);
    static false_t dispatch(...);  
    static T trigger();
    public:
enum { value = sizeof(dispatch(trigger())) == sizeof(true_t) }
;

template<
    bool C
 , typename T1
 , typename T2
>
struct if_c
{
    typedef T1 type;
};

template<
    typename T1
 , typename T2
>
struct if_c<false,T1,T2>
{
    typedef T2 type;
};

template<
    typename T1
 , typename T2
 , typename T3
>
struct if_
{
    typedef typename if_c<0 != T1::value, T2, T3>::type type;
};

template <class Pair>
struct select1st
//   : public std::unary_function<Pair, typename Pair::first_type>
{
    template<class OtherPair>
    const typename Pair::first_type& operator()(const OtherPair& x) const
    {  return x.first;  }

    const typename Pair::first_type& operator()(const typename Pair::first_type& x) const
    {  return x;  }
};

// identity is an extension: it is not part of the standard.

template <class T>
struct identity
// : public std::unary_function<T,T>
{
    typedef T type;
    const T& operator()(const T& x) const
    { return x; }
};

template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<(S >> 1u)>::value);
};

template<>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
    static const std::size_t value = 0;
};

template <typename T> struct unvoid { typedef T type; }; 
template <> struct unvoid<void> { struct type {}; }; 
template <> struct unvoid<const void> { struct type {}; }; 

} //namespace container_detail {
} //namespace container {
} //namespace boost {

#endif   //#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

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//   http://www.boost.org/LICENSE_1_0.txt)

#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
#define BOOST_INTERPROCESS_DETAIL_MPL_HPP
#if (defined _MSC_VER) && (_MSC_VER >= 1200)
#pragma once
#endif

#include <cstddef>

namespace boost {
namespace interprocess {
namespace ipcdetail {

template <class T, T val>
struct integral_constant
{
    static const T value = val;
    typedef integral_constant<T,val> type;
};

template< bool C_ >
struct bool_ : integral_constant<bool, C_>
{
    static const bool value = C_;
};

typedef bool_<true>        true_;
typedef bool_<false>       false_;
typedef true_  true_type;
typedef false_ false_type;

typedef char yes_type;
struct no_type
{
    char padding[8];
};

template <bool B, class T = void>
struct enable_if_c {
    typedef T type;
};

template <class T>
struct enable_if_c<T, class T> { };  

template <class Cond, class T = void>
struct enable_if_c<Cond::value, T> { };  

template <class Cond, class T = void>
struct disable_if : public enable_if<!Cond::value, T> {};  

template <class T, class U>  
class is_convertible  
{

typedef char true_t;

class false_t { char dummy[2]; };  

static true_t dispatch(U);

static false_t dispatch(...);

static T trigger();

public:

static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);
};  

template<

  bool C

 , typename T1

 , typename T2

>

struct if_c
{

typedef T1 type;
};  

template<

  typename T1

 , typename T2

>

struct if_c<false,T1,T2>
{

typedef T2 type;
};  

template<

  typename T1

 , typename T2

 , typename T3

>

struct if_<
{

typedef typename if_c<0 != T1::value, T2, T3>::type type;
};  

template <class Pair>  
struct select1st

// : public std::unary_function<Pair, typename Pair::first_type>
{


template<class OtherPair>
const typename Pair::first_type& operator()(const OtherPair& x) const
{  return x.first;  }

const typename Pair::first_type& operator()(const typename Pair::first_type& x) const
{  return x;  }
};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
//   : public std::unary_function<T,T>
{
  typedef T type;
  const T& operator()(const T& x) const
  {  return x;  }
};

template<std::size_t S>
struct ls_zeros
{
  static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<(S >> 1u)>::value);
};

template<>  
struct ls_zeros<0>
{
  static const std::size_t value = 0;
};

template<>  
struct ls_zeros<1>
{
  static const std::size_t value = 0;
};
//
//
/////////////////////////////////////////////////////////////////////////////

#include <boost/intrusive/detail/config_begin.hpp>
#include <cstddef>
namespace boost {
    namespace intrusive {
        namespace detail {

            typedef char one;
            struct two {one _[2];};

            template< bool C_ >
            struct bool_
            {
                static const bool value = C_;
            };

            typedef bool_<true>        true_;
            typedef bool_<false>       false_;

            typedef true_  true_type;
            typedef false_ false_type;

            typedef char yes_type;
            struct no_type
            {
                char padding[8];
            };

            template <bool B, class T = void>
            struct enable_if_c {
                typedef T type;
            };

            template <class T>
            struct enable_if_c<false, T> { };

            template <class Cond, class T = void>
            struct enable_if : public enable_if_c<Cond::value, T> { };

            template<class F, class Param>

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    // http://www.boost.org/LICENSE_1_0.txt

    #ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP
    #define BOOST_INTRUSIVE_DETAIL_MPL_HPP

    #ifdef BOOST_INTRUSIVE_DETAIL_MPL_HPP

    #endif

    #endif

} // namespace detail
} // namespace intrusive
} // namespace boost

struct apply
{
    typedef typename F::template apply<Param>::type type;
};

template <class T, class U>
class is_convertible
{
    typedef char true_t;
    class false_t { char dummy[2]; }; 
    static true_t dispatch(U);
    static false_t dispatch(...);
    static const T &trigger();
    public:
    static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);
};

template<
    bool C
 , typename T1
 , typename T2
>
struct if_c
{
    typedef T1 type;
};

template<
    typename T1
 , typename T2
>
struct if_c<false,T1,T2>
{
    typedef T2 type;
};

template<
    typename C
 , typename T1
 , typename T2
>
struct if_
{
    typedef typename if_c<0 != C::value, T1, T2>::type type;
};

template<
    bool C
}
struct eval_if_c
    : if_c<C,F1,F2>::type
{};

template<
    typename C
    , typename T1
    , typename T2
>
struct eval_if
    : if_<C,T1,T2>::type
{};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
{
    typedef T type;
};

#if defined(BOOST_MSVC) || defined(__BORLANDC_)
#define BOOST_INTRUSIVE_TT_DECL __cdecl
#else
#define BOOST_INTRUSIVE_TT_DECL
#endif
#if defined(_MSC_EXTENSIONS) && !defined(__BORLAND__) && !defined(_WIN64) && !defined(UNDER_CE)
#define BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS
#endif

template <typename T>
struct is_unary_or_binary_function_impl
{
    static const bool value = false;
};

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
#ifndef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R>
struct is_unary_or_binary_function_impl<R (*)(())>
{
    static const bool value = true;
};

template <typename R>
struct is_unary_or_binary_function_impl<R (*)(...)>

{ static const bool value = true; }

#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R>
struct is_unary_or_binary_function_impl<R (__stdcall*)(...)>
{ static const bool value = true; }

#endif

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
#ifndef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (*)(T0)>  
{ static const bool value = true; }

#endif

#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (__stdcall*)(T0)>  
{ static const bool value = true; }

#endif

#ifndef _MANAGED

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (__fastcall*)(T0)>
{ static const bool value = true; }

#endif

#ifndef _MANAGED

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (__cdecl*)(...)>
{ static const bool value = true; }

#endif

#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (__fastcall*)(...)>
{ static const bool value = true; }

#endif
{ static const bool value = true; }

#endif

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R ( __cdecl *)(T0)>  
{ static const bool value = true; }

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R ( __cdecl *)(T0...)>
{ static const bool value = true; }

#endif

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
#if !defined BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (*)(T0, T1)>
{ static const bool value = true; }

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (*)(T0, T1...)>
{ static const bool value = true; }

#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R ( __stdcall*)(T0, T1)>
{ static const bool value = true; }

#ifndef _MANAGED

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R ( __fastcall*)(T0, T1)>
{ static const bool value = true; }
#endif

#endif

#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0, T1)>
{ static const bool value = true; }

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0, T1...)>
{ static const bool value = true; }
#endif
template <typename T>
struct is_unary_or_binary_function_impl<T&>
{ static const bool value = false; };

template<typename T>
struct is_unary_or_binary_function
{ static const bool value = is_unary_or_binary_function_impl<T>::value; };

//boost::alignment_of yields to 10K lines of preprocessed code, so we
//need an alternative
template <typename T> struct alignment_of;

template <typename T>
struct alignment_of_hack
{
    char c;
    T t;
    alignment_of_hack();
};

template <unsigned A, unsigned S>
struct alignment_logic
{
    static const std::size_t value = A < S ? A : S;
};

template< typename T >
struct alignment_of
{
    static const std::size_t value = alignment_logic
        < sizeof(alignment_of_hack<T>) - sizeof(T)
        , sizeof(T)
        >::value;
};

template <typename T, typename U>
struct is_same
{
    typedef char yes_type;
    struct no_type
    {
        char padding[8];
    };

    template <typename V>
    static yes_type is_same_tester(V*, V*);
    static no_type is_same_tester(...);
static T *t;
static U *u;

static const bool value = sizeof(yes_type) == sizeof(is_same_tester(t,u));
};

template<typename T>
struct add_const
{  typedef const T type;   };

template<typename T>
struct remove_const
{  typedef T type;   };

template<typename T>
struct remove_const<const T>
{  typedef T type;   };

template<typename T>
struct remove_cv
{  typedef T type;   };

template<typename T>
struct remove_cv<const T>
{  typedef T type;   };

template<typename T>
struct remove_cv<const volatile T>
{  typedef T type;   };

template<typename T>
struct remove_cv<volatile T>
{  typedef T type;   };

template<class T>
struct remove_reference
{
  typedef T type;
};

template<class T>
struct remove_reference<T&>
{
  typedef T type;
};

template<class Class>
class is_empty_class
{
    template <typename T>
    struct empty_helper_t1 : public T
    {
        empty_helper_t1();
        int i[256];
    }

    struct empty_helper_t2
    { int i[256]; }

    public:
    static const bool value = sizeof(empty_helper_t1<Class>) == sizeof(empty_helper_t2);
};

template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1 + ls_zeros<(S>>1u)>::value);
};

template<>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
    static const std::size_t value = 0;
};

} //namespace detail
} //namespace intrusive
} //namespace boost

#include <boost/intrusive/detail/config_end.hpp>

1.106 boost-test 1.53.0
1.106.1 Available under license:

The following people hereby grant permission to replace all existing licenses on their contributions to Boost with the Boost Software License, Version 1.0. (boostinspect:nolicense boostinspect:nocopyright)

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Maybe this should pass?
[article Invalid copyright years
[quickbook 1.5]
[copyright 2010-2001 Timequake man]
]
/*
* * Copyright (c) 2003 Dr John Maddock
* Use, modification and distribution is subject to the
* Boost Software License, Version 1.0. (See accompanying file
* LICENSE_1_0.txt or copy at http://www.boost.org/LICENSE_1_0.txt)
* *
*/

#include "licence_info.hpp"
#include "bcp_imp.hpp"
#include "fileview.hpp"
#include <fstream>
#include <iomanip>
#include <cstring>
#include <stdexcept>
#include <boost/lexical_cast.hpp>
#include <boost/filesystem/operations.hpp>
#include <boost/throw_exception.hpp>

//
// split_path is a small helper for outputting a path name,
// complete with a link to that path:
//
struct split_path
{
    const fs::path& root:
```cpp
const fs::path& file;
split_path(const fs::path& r, const fs::path& f)
  : root(r), file(f){}
private:
split_path& operator=(const split_path&);
};

std::ostream& operator << (std::ostream& os, const split_path& p)
{
  os << "<a href=" << (p.root / p.file).string() << "">" << p.file.string() << "</a>";
  return os;
}

std::string make_link_target(const std::string& s)
{
  // convert an arbitrary string into something suitable
  // for an <a> name:
  std::string result;
  for(unsigned i = 0; i < s.size(); ++i)
  {
    result.append(1, static_cast<std::string::value_type>(std::isalnum(s[i]) ? s[i] : '_'));
  }
  return result;
}

void bcp_implementation::output_license_info()
{
  std::pair<const license_info*, int> licenses = get_licenses();

  std::map<int, license_data>::const_iterator i, j;
  i = m_license_data.begin();
  j = m_license_data.end();

  std::ofstream os(m_dest_path.string().c_str());
  if(!os)
  {
    std::string msg("Error opening ");
    msg += m_dest_path.string();
    msg += " for output."
    std::runtime_error e(msg);
    boost::throw_exception(e);
  }
  os <<
  "<!DOCTYPE HTML PUBLIC \"\-//W3C//DTD HTML 4.0 Transitional//EN\"">
  "<html>
  "<head>
  "<title>Boost Licence Dependency Information";
```
if(m_module_list.size() == 1)
{
    os << " for " << *(m_module_list.begin());
}

os <<
"</title>
"</head>
"<body>
"<H1>Boost Licence Dependency Information";
if(m_module_list.size() == 1)
{
    os << " for " << *(m_module_list.begin());
}

os <<
"</H1>
"<H2>Contents</h2>
"<pre><a href="#input">Input Information</a>
if(!m_bsl_summary_mode)
    os << "<a href="#summary">Licence Summary</a>
os << "<a href="#details">Licence Details</a>
while(i != j)
{
   // title:
    os << "   <A href="#" << make_link_target(licenses.first[i->first].license_name)
       "</a>\n";
    ++i;
}

os << "<a href="#files">Files with no recognised license</a>
"<a href="#authors">Files with no recognised copyright holder</a>
if(!m_bsl_summary_mode)
{
    os <<
"Moving to the Boost Software License...
<br>"<a href="#bsl-converted">Files that can be automatically converted to the Boost Software License</a>
<br>"<a href="#to-bsl">Files that can be manually converted to the Boost Software License</a>
<br>"<a href="#not-to-bsl">Files that can NOT be moved to the Boost Software License</a>
<br>"<a href="#need-bsl-authors">Authors we need to move to the Boost Software License</a>
<br>"<a href="#copyright">Copyright Holder Information</a>

os << "<a href="#depend">File Dependency Information</a>
"</pre>"
if (m_scan_mode)
    os << "<P>The following files were scanned for boost dependencies::<BR>");
else
    os << "<P>The following Boost modules were checked::<BR>");

    std::list<std::string>::const_iterator si = m_module_list.begin();
    std::list<std::string>::const_iterator sj = m_module_list.end();
    while (si != sj)
    {
        os << *si << "<BR>");
        ++si;
    }
    os << "</p"><p>The Boost path was: <code>" << m_boost_path.string() << "</code></p>";

    // extract the boost version number from the boost directory tree,
    // not from this app (which may have been built from a previous
    // version):
    //
    fileview version_file(m_boost_path / "boost/version.hpp");
    static const boost::regex version_regex("^[[:blank:]]*#\[[:blank:]]*define[[:blank:]]*BOOST_VERSION[[:blank:]]*[[:blank:]]*\d+\\)");
    boost::cmatch what;
    if (boost::regex_search(version_file.begin(), version_file.end(), what, version_regex))
    {
        int version = boost::lexical_cast<int>(what.str(1));
        os << "<p>The Boost version is: " << version / 100000 << "." << version / 100 % 1000 << "." << version % 100
        << "";</p>
    }

    // output each license:
    //
    i = m_license_data.begin();
    j = m_license_data.end();
    if (!m_bsl_summary_mode)
    {
        // start with the summary:
        //
        os << "<h2>Licence Summary</h2>
        while (i != j)
        {
            // title:
            os << "<H3>" << licenses.first[i->first].license_name << "</H3>
            // license text:
            os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
// Copyright holders:
os << "<P>This license is used by " << i->second.authors.size() << " authors and " << i->second.files.size() << " files (<a href="#" make_link_target(licenses.first[i->first].license_name) >see details</a>); os << "</P></BLOCKQUOTE>\n";
++i;
}

// and now the details:
//
i = m_license_data.begin();
j = m_license_data.end();
int license_index = 0;
os << "<a name=\"details\"></a><h2>Licence Details</h2>
while(i != j)
{
    // title:
os << "<H3><A name=" make_link_target(licenses.first[i->first].license_name) "></a>" << licenses.first[i->first].license_name << "</H3>\n";
    // license text:
os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
    if(!m_bsl_summary_mode || (license_index >= 3))
    {
        // Copyright holders:
os << "<P>This license is used by the following " << i->second.authors.size() << " copyright holders:
std::set<std::string>::const_iterator x, y;
x = i->second.authors.begin();
y = i->second.authors.end();
while(x != y)
{
os << *x << "<BR>\n";
++x;
}
os << "</P></BLOCKQUOTE>\n";
    // Files using this license:
os << "<P>This license applies to the following " << i->second.files.size() << " files:
std::set<fs::path, path_less>::const_iterator m, n;
m = i->second.files.begin();
N = i->second.files.end();
while(m != n)
{
os << split_path(m_boost_path, *m) << "<br>\n";
++m;
}
os << "</p></BLOCKQUOTE>\n";
}
else
{
    os << "<P>This license is used by " << i->second.authors.size() << " authors (list omitted for brevity).</P>\n";
    os << "<P>This license applies to " << i->second.files.size() << " files (list omitted for brevity).</P>\n";
}
++license_index;
++i;
}

// Output list of files not found to be under license control:
//
// os << "<h2><a name="files"></a>Files With No Recognisable Licence</h2>\n"
"<P>The following " << m_unknown_licenses.size() << " files had no recognisable license
information:</P>\n"<BLOCKQUOTE>\n";
std::set<fs::path, path_less>::const_iterator i2, j2;
i2 = m_unknown_licenses.begin();
j2 = m_unknown_licenses.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "\n";
    ++i2;
}
    os << "</p></BLOCKQUOTE>";
//
// Output list of files with no found copyright holder:
//
// os << "<h2><a name="authors"></a>Files With No Recognisable Copyright Holder</h2>\n"
"<P>The following " << m_unknown_authors.size() << " files had no recognisable copyright
holder:</P>\n"<BLOCKQUOTE>\n";
i2 = m_unknown_authors.begin();
j2 = m_unknown_authors.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "\n";
    ++i2;
}
    os << "</p></BLOCKQUOTE>";
if(!m_bsl_summary_mode)
{
    //
    // Output list of files that have been moved over to the Boost
    // Software License, along with enough information for human
    // verification.
    //
    os << "<h2><a name="bsl-converted"></a>Files that can be automatically converted to the Boost Software
License</h2>\n"
<< "<P>The following " << m_converted_to_bsl.size() << " files can be automatically converted to the Boost Software License, but require manual verification before they can be committed to CVS:<P>
";
if (!m_converted_to_bsl.empty())
{
  typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>::const_iterator conv_iterator;
  conv_iterator i = m_converted_to_bsl.begin(),
  ie = m_converted_to_bsl.end();
  int file_num = 1;
  while (i != ie)
  {
    os << "<P>[] File: <tt>" << split_path(m_boost_path, i->first)
    << "</tt><br><table border="1">
      <tr>
        <td><pre>
          "" << i->second.first << "</pre></td>
        <td><pre>
          "" << i->second.second << "</pre></td>
      </tr>
    </table>
    ++i;
    ++file_num;
  }
}
//
// Output list of files that could be moved over to the Boost Software License
//
os << "<h2><a name="to-bsl"></a>Files that could be converted to the Boost Software License</h2>
";<P>
The following " << m_can_migrate_to_bsl.size() << " files could be manually converted to the Boost Software License, but have not yet been:<P>
<BLOCKQUOTE><P>
  i2 = m_can_migrate_to_bsl.begin();
  j2 = m_can_migrate_to_bsl.end();
  while(i2 != j2)
  {
    os << split_path(m_boost_path, *i2) << "<br>
    ++i2;
  }
  os << "</p></BLOCKQUOTE>";
//
// Output list of files that can not be moved over to the Boost Software License
//
os << "<h2><a name="not-to-bsl"></a>Files that can NOT be converted to the Boost Software License</h2>
";<P>
The following " << m_cannot_migrate_to_bsl.size() << " files cannot be converted to the Boost Software License because we need the permission of more authors:<P>
<BLOCKQUOTE><P>
  i2 = m_cannot_migrate_to_bsl.begin();
  j2 = m_cannot_migrate_to_bsl.end();
  while(i2 != j2)
  {
    os << split_path(m_boost_path, *i2) << "<br>
    ++i2;
  }
  os << "</p></BLOCKQUOTE>";
// Output list of authors that we need permission for to move to the BSL
//
os << "<h2><a name="need-bsl-authors">Authors we need for the BSL</a></h2><p>
"Permission of the following authors is needed before we can convert to the Boost Software License. The list of authors that have given their permission is contained in <code>more/blanket-permission.txt</code>.

```cpp
std::copy(m_authors_for_bsl_migration.begin(), m_authors_for_bsl_migration.end(),
    std::ostream_iterator<std::string>(os, "<br>
`));
os << "</p></BLOCKQUOTE>
```

// output a table of copyright information:
//
```
</table>
```

// output file dependency information:
//
```
</table>
```
bad_paths.insert(m_can_migrate_to_bsl.begin(), m_can_migrate_to_bsl.end());
bad_paths.insert(m_cannot_migrate_to_bsl.begin(), m_cannot_migrate_to_bsl.end());
typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>::const_iterator conv_iterator;
conv_iterator i = m_converted_to_bsl.begin(),
ie = m_converted_to_bsl.end();
while(i != ie)
{
    bad_paths.insert(i->first);
    ++i;
}
fi = bad_paths.begin();
efi = bad_paths.end();
os << "<P>For brevity, only files not under the BSL are shown</P>
";
while(fi != efi)
{
    os << split_path(m_boost_path, *fi);
    dep = m_dependencies.find(*fi);
    last_dep = m_dependencies.end();
    std::set<fs::path, path_less> seen_deps;
    if (dep != last_dep)
      while(true)
      {
          os << " -> ";
          if(fs::exists(m_boost_path / dep->second))
              os << split_path(m_boost_path, dep->second);
          else if(fs::exists(dep->second))
              os << split_path(fs::path(), dep->second);
          else
              os << dep->second.string();
          if(seen_deps.find(dep->second) != seen_deps.end())
          {
              os << " <I>(Circular dependency!)</I>";
              break; // circular dependency!!!
          }
          seen_deps.insert(dep->second);
          last_dep = dep;
          dep = m_dependencies.find(dep->second);
          if((dep == m_dependencies.end()) || (0 == compare_paths(dep->second, last_dep->second)))
              break;
      }
    os << "\n";
    ++fi;
}
os << "</pre></BLOCKQUOTE>\n";
os << "</body></html>";
if(!os)
{
  std::string msg("Error writing to ");
  msg += m_dest_path.string();
  msg += ":";
  std::runtime_error e(msg);
  boost::throw_exception(e);
}

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This package was debianized by Vladimir Prus <ghost@cs.msu.su> on Wed, 17 July 2002, 19:27:00 +0400.

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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in
HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM.

Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood.

Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code.

Jesper Peterson (jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.

Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.

Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.

Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlef (detlef@src.dec.com) also provided several generic bug fixes.

Alistair G. Crooks (agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports.

Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.

Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk).

Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task).

Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.

David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn’t
made it into the released version of the collector, yet.)

Boost.Geometry (aka GGL, Generic Geometry Library)

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- implemented file-format e.g. WKB
- implemented specific strategy or algorithm e.g. intersections
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<title>Boost Date-Time Library License</title>
<bridgehead renderas="sect2">Boost Date-Time Library License</bridgehead>
<!--hr /-->
<para>
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</para>
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</para>
<!--hr / -->
<ulink url="mailto:jeff@crystalclearsoftware.com">Jeff Garland</ulink>
All the value based traits in this library conform to MPL's requirements for an [Integral Constant type]: that includes a number of rather intrusive workarounds for broken compilers.

Purely as an implementation detail, this means that `__true_type` inherits from [`boost::mpl::true_`], `__false_type` inherits from [`boost::mpl::false_`], and `__integral_constant<T, v>` inherits from [`boost::mpl::integral_c<T,v>`] (provided `T` is not `bool`).
All the value based traits in this library conform to MPL’s requirements for an Integral Constant type: that includes a number of rather intrusive workarounds for broken compilers.

Purely as an implementation detail, this means that inheritance from

```cpp
true_type
```

inherits from

```cpp
boost::mpl::true_;
```

```cpp
false_type
```

inherits from

```cpp
boost::mpl::false_;
```

```cpp
integral_constant<T, v>
```

(provided ```cpp
T
```

is not

```cpp
bool
```

on ```cpp
v
```

inheritance from

```cpp
boost::mpl::integral_c<T, v>
```

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Frederic Bron, Steve Cleary, Beman Dawes, Aleksey Gurtovoy, Howard Hinnant,
Jesse Jones, Mat Marcus, Itay Maman, John Maddock, Alexander Nasonov, Thorsten Ottosen, Roman Perpelitsa, Robert Ramey, Jeremy Siek, Robert Stewart and Steven Watanabe

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#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
#define BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

#if (defined _MSC_VER) && (_MSC_VER >= 1200)
#pragma once
#endif

#include <cstddef>

namespace boost {
namespace container {
namespace container_detail {

template <class T, T val>
struct integral_constant {
  static const T value = val;

 namespace boost {
   namespace container {
     namespace container_detail {

       template <class T, T val>
       struct integral_constant {
         static const T value = val;


typedef integral_constant<T,val> type;
;

template< bool C_ >
struct bool_ : integral_constant<bool, C_>
{
    static const bool value = C_;
    operator bool() const { return bool_::value; }
};

typedef bool_<true> true_;
typedef bool_<false> false_

typedef true_ true_type;
typedef false_ false_type;

typedef char yes_type;
struct no_type
{
    char padding[8];
};

template <bool B, class T = void>
struct enable_if_c {
    typedef T type;
};

template <class T>
struct enable_if_c<false, T> {};

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {};

template <class Cond, class T = void>
struct disable_if : public enable_if_c<!Cond::value, T> {};

template <bool B, class T = void>
struct disable_if_c : public enable_if_c<!B, T> {};

template <class T, class U>
class is_convertible
{
    typedef char true_t;
class false_t { char dummy[2]; };  
    static true_t dispatch(U);
    static false_t dispatch(...);
    static T trigger();
public:
enum { value = sizeof(dispatch(trigger())) == sizeof(true_t) };
// : public std::unary_function<T,T>
{
    typedef T type;
    const T& operator()(const T& x) const
    { return x; }
};

template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<(S >> 1u)>::value);
};

template<typename T> struct unvoid { typedef T type; };
template <> struct unvoid<void> { struct type { }; };
template <> struct unvoid<const void> { struct type { }; };
}

} namespace container_detail {
} namespace container {
} namespace boost {

#endif //ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

//////////////////////////////////////////////////////////////////////////////
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//
//
////////////////////////////////////////////////////////////////////////////////

#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
#define BOOST_INTERPROCESS_DETAIL_MPL_HPP
#if (defined _MSC_VER) && (_MSC_VER >= 1200)
#pragma once
#endif

#include <cstddef>

namespace boost {
    namespace interprocess {
        namespace ipcdetail {

            template <class T, T val>
            struct integral_constant {
                static const T value = val;
                typedef integral_constant<T,val> type;
            };

            template< bool C_ >
            struct bool_ : integral_constant<bool, C_>
            {
                static const bool value = C_;  
            };

            typedef bool_<true>  true_;
            typedef bool_<false> false_;

            typedef true_  true_type;
            typedef false_ false_type;

            typedef char yes_type;
            struct no_type
            {
                char padding[8];
            };

            template <bool B, class T = void>
            struct enable_if_c {
                typedef T type;
            };

            template <class T>
            struct enable_if_c<false, T> {};

            template <class Cond, class T = void>
            struct enable_if : public enable_if_c<Cond::value, T> {};

            template <class Cond, class T = void>
struct disable_if : public enable_if_c<!Cond::value, T> { }

template <class T, class U>
class is_convertible
{
  typedef char true_t;
  class false_t { char dummy[2]; };  
  static true_t dispatch(U);
  static false_t dispatch(...);
  static T trigger();
  public:
  static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);
};

template<
  bool C
  , typename T1
  , typename T2
>
struct if_c
{
  typedef T1 type;
};

template<
  typename T1
  , typename T2
>
struct if_c<false,T1,T2>
{
  typedef T2 type;
};

template<
  typename T1
  , typename T2
  , typename T3
>
struct if_
{
  typedef typename if_c<0 != T1::value, T2, T3>::type type;
};

template <class Pair>
struct select1st
// : public std::unary_function<Pair, typename Pair::first_type>
{
template<class OtherPair>
const typename Pair::first_type& operator()(const OtherPair& x) const
{  return x.first;  }

const typename Pair::first_type& operator()(const typename Pair::first_type& x) const
{  return x;  }
};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
//   : public std::unary_function<T,T>
{
    typedef T type;
    const T& operator()(const T& x) const
    { return x; }
};

template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<(S >> 1u)>::value);
};

template<>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
    static const std::size_t value = 0;
};
#ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP
#define BOOST_INTRUSIVE_DETAIL_MPL_HPP

#include <boost/intrusive/detail/config_begin.hpp>
#include <cstdint>

namespace boost {
namespace intrusive {
namespace detail {

typedef char one;
struct two {one _[2];};

template< bool C_ >
struct bool_
{
    static const bool value = C_;
};

typedef bool_<!true>        true_;
typedef bool_<!false>       false_;

typedef true_  true_type;
typedef false_ false_type;

typedef char yes_type;
struct no_type
{
    char padding[8];
};

template <bool B, class T = void>
struct enable_if_c {
    typedef T type;
};

template <class T>
struct enable_if_c<!false, T> {}; 

template <class Cond, class T = void>
struct enable_if : public enable_if_c<!Cond::value, T> {}; 

template<class F, class Param>

} } }
struct apply
{
    typedef typename F::template apply<Param>::type type;
};

template <class T, class U>
class is_convertible
{
    typedef char true_t;
    class false_t { char dummy[2]; }; 
    static true_t dispatch(U);
    static false_t dispatch(...);
    static const T &trigger();
    public:
    static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);
};

template<
    bool C
    , typename T1
    , typename T2
>
struct if_c
{
    typedef T1 type;
};

template<
    typename T1
    , typename T2
>
struct if_c<false,T1,T2>
{
    typedef T2 type;
};

template<
    typename C
    , typename T1
    , typename T2
>
struct if_
{
    typedef typename if_c<0 != C::value, T1, T2>::type type;
};

template<
    bool C
struct eval_if_c
  : if_c<C,F1,F2>::type
{};

template<
  typename C
 , typename T1
 , typename T2
>
struct eval_if
  : if_<C,T1,T2>::type
{};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
{
  typedef T type;
};

#if defined(BOOST_MSVC) || defined(__BORLANDC_)
#define BOOST_INTRUSIVE_TT_DECL __cdecl
#else
#define BOOST_INTRUSIVE_TT_DECL
#endif
#if defined(_MSC_EXTENSIONS) && !defined(__BORLAND__) && !defined(__WIN64) &&
  !defined(UNDER_CE)
#define BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS
#endif

template <typename T>
struct is_unary_or_binary_function_impl
  { static const bool value = false; }; // see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
#ifndef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS
#endif

template <typename R>
struct is_unary_or_binary_function_impl<R (*)(())>
  { static const bool value = true; };

template <typename R>
struct is_unary_or_binary_function_impl<R (*)(...)>
  { static const bool value = true; };


{ static const bool value = true; };

#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R>
struct is_unary_or_binary_function_impl<R (__stdcall*)()>
{ static const bool value = true; };

#ifndef _MANAGED

template <typename R>
struct is_unary_or_binary_function_impl<R (__fastcall*)()>
{ static const bool value = true; };
#endif

template <typename R>
struct is_unary_or_binary_function_impl<R (__cdecl*)()>
{ static const bool value = true; };

template <typename R>
struct is_unary_or_binary_function_impl<R (__cdecl*)(...)>
{ static const bool value = true; };
#endif

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
#ifndef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (*)(T0)>
{ static const bool value = true; };

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (*)(T0...)>
{ static const bool value = true; };
#endif
#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (__stdcall*)(T0)>
{ static const bool value = true; };
#endif

#ifndef _MANAGED

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (__fastcall*)(T0)>
{ static const bool value = true; };
#endif
{ static const bool value = true; };

#endif

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0)>
{ static const bool value = true; };

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0...)>  
{ static const bool value = true; };

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
#ifndef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (*)(T0, T1)>
{ static const bool value = true; };

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (*)(T0, T1...)>
{ static const bool value = true; };

#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__stdcall*)(T0, T1)>
{ static const bool value = true; };

#ifndef _MANAGED

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__fastcall*)(T0, T1)>
{ static const bool value = true; };
#endif
#endif
template <typename T>
struct is_unary_or_binary_function_impl<T &>
{  static const bool value = false; };

template<typename T>
struct is_unary_or_binary_function
{  static const bool value = is_unary_or_binary_function_impl<T>::value; };

//boost::alignment_of yields to 10K lines of preprocessed code, so we
//need an alternative
template <typename T> struct alignment_of;

template <typename T>
struct alignment_of_hack
{
    char c;
    T t;
    alignment_of_hack();
};

template <typename T>
struct alignment_of
{
    static const std::size_t value = alignment_logic
        < sizeof(alignment_of_hack<T>) - sizeof(T)
        , sizeof(T)
        >::value;
};

template <typename T, typename U>
struct is_same
{
    typedef char yes_type;
    struct no_type
    {
        char padding[8];
    };

    template <typename V>
    static yes_type is_same_tester(V *, V *);
    static no_type is_same_tester(...);

static T *t;
static U *u;

static const bool value = sizeof(yes_type) == sizeof(is_same_tester(t,u));
};

template<typename T>
struct add_const
{  typedef const T type;   };

template<typename T>
struct remove_const
{  typedef  T type;   };

template<typename T>
struct remove_const<const T>
{  typedef T type;   };

template<typename T>
struct remove_cv
{  typedef  T type;   };

template<typename T>
struct remove_cv<const T>
{  typedef T type;   };

template<typename T>
struct remove_cv<const volatile T>
{  typedef T type;   };

template<typename T>
struct remove_cv<volatile T>
{  typedef T type;   };

template<class T>
struct remove_reference
{  
    typedef T type;
};

template<class T>
struct remove_reference<T&>
{  
    typedef T type;
};

template<class Class>
class is_empty_class
{
    template<typename T>
    struct empty_helper_t1 : public T
    {
        empty_helper_t1();
        int i[256];
    };

    struct empty_helper_t2
    { int i[256]; };

    public:
    static const bool value = sizeof(empty_helper_t1<Class>) == sizeof(empty_helper_t2);
};

template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1 + ls_zeros<(S>>1u)>::value);
};

//namespace intrusive
} //namespace boost
#include <boost/intrusive/detail/config_end.hpp>

Index: boost/mpl/print.hpp
1.107 boost-thread 1.53.0-27
1.107.1 Available under license:

<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=US-ASCII"/>  
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<link rel="stylesheet" href="../../../doc/src/boostbook.css" type="text/css"/>
<meta name="generator" content="DocBook XSL Stylesheets V1.77.1"/>
<link rel="home" href="../index.html" title="Chapter 1: Boost.TypeTraits"/>
<link rel="up" href="../index.html" title="Chapter 1: Boost.TypeTraits"/>
<link rel="prev" href="intrinsics.html" title="Support for Compiler Intrinsics"/>
<link rel="next" href="examples.html" title="Examples"/>
</head>
<body bgcolor="white" text="black" link="#0000FF" vlink="#840084" alink="#0000FF">
<table cellpadding="2" width="100%" align="center">

```cpp
, aux::print_base
-#endif
+#endif
{
#if defined(BOOST_MSVC)
    enum { n = sizeof(T) + -1 };  
#elif defined(__MWERKS__)
    void f(int);
-#else
-        enum {
-            n =
-        # if defined(__EDG_VERSION__)  
-            aux::dependent_unsigned<T>::value > -1
-        #else
-            sizeof(T) > -1
-        #endif
-    #else
-        enum {
-            n = aux::dependent_unsigned<T>::value > -1
-        #elif defined(__EDG_VERSION__)  
+        enum { n = aux::dependent_unsigned<T>::value > -1
+        #elif defined(BOOST_GCC)
+            enum { n1 };  
+            enum { n2 };  
+            enum { n = n1 != n2 };
+        #else
+            enum { n = sizeof(T) > -1 };
+        #endif
+    #elif defined(__EDG_VERSION__)  
+        enum { n = aux::dependent_unsigned<T>::value > -1
+    #elif defined(BOOST_MSVC)
```

Open Source Used In Application Centric Infrastructure Service Engine (ACI-SE) 1.1
2011
All the value based traits in this library conform to MPL’s requirements for an Integral Constant type: that includes a number of rather intrusive workarounds for broken compilers.

Purely as an implementation detail, this means that <code class="computeroutput">true_type</code> inherits from <code class="computeroutput">boost::mpl::true_</code>, <code class="computeroutput">false_type</code> inherits from <code class="computeroutput">boost::mpl::false_</code>, and <code class="computeroutput">integral_constant&lt;T, v&gt;</code> inherits from <code class="computeroutput">boost::mpl::integral_c&lt;T, v&gt;</code> (provided <code class="computeroutput">T</code> is not <code class="computeroutput">boost::mpl::integral_c</code>).
All the value based traits in this library conform to MPL's requirements for an Integral Constant type: that includes a number of rather intrusive workarounds for broken compilers.

Purely as an implementation detail, this means that `__true_type` inherits from `boost::mpl::true_`, `__false_type` inherits from `boost::mpl::false_`, and `integral_constant<T, v>` inherits from `boost::mpl::integral_c<T,v>` (provided `T` is not `bool`)

[endsect]

Index: boost/mpl/print.hpp

===================================================================
--- boost/mpl/print.hpp(revision 83411)
+++ boost/mpl/print.hpp(working copy)
@@ -45,22 +45,21 @@
    mpl::identity<T>
#if defined(__MWERKS__)
    , aux::print_base
-#endif
+#endif
+
#if defined(BOOST_MSVC)
    { 
    #elif defined(_EDG_VERSION__)
    - enum { n = sizeof(T) + -1 };
    +#elif defined(__EDG_VERSION__) 
    - aux::dependent_unsigned<T>::value > -1
    +# else
    - sizeof(T) > -1
    +# endif
    - };
    +#endif
#else
    +#elif defined(BOOST_GCC)
    + enum { n1 };
    +# elif defined(BOOST_GCC)
    + enum { n2 };
    + enum { n = n1 != n2 };
    +# else
    + enum { n = sizeof(T) > -1 };
    +# endif
#endif

#if defined(BOOST_MSVC)
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=US-ASCII">
<title>MPL Interoperability</title>
<link rel="stylesheet" href="../..//doc/boostbook.css" type="text/css">
<meta name="generator" content="DocBook XSL Stylesheets V1.77.1">
<link rel="home" href="../..//index.html" title="Chapter\&amp;#160;1\&amp;#160;:\&amp;#160;Boost.TypeTraits">
<link rel="up" href="../..//index.html" title="Chapter\&amp;#160;1\&amp;#160;:\&amp;#160;Boost.TypeTraits">
<link rel="prev" href="intrinsics.html" title="Support for Compiler Intrinsics">
<link rel="next" href="examples.html" title="Examples">
</head>
<body bgcolor="white" text="black" link="#0000FF" vlink="#840084" alink="#0000FF">
<table cellpadding="2" width="100%">
<tr>
All the value based traits in this library conform to MPL's requirements for an `integral_constant` type: that includes a number of rather intrusive workarounds for broken compilers.

Purely as an implementation detail, this means that `<true_type>` inherits from `<mpl::true_>` and `<false_type>` inherits from `<mpl::false_>` (provided `<T>` is not `<bool>`).
All the value based traits in this library conform to MPL's requirements for an Integral Constant type: that includes a number of rather intrusive workarounds for broken compilers.

Purely as an implementation detail, this means that `__true_type` inherits from `boost::mpl::true_`, `__false_type` inherits from `boost::mpl::false_`, and `__integral_constant<T, v>` inherits from `[boost::mpl::integral_c<T,v>]` (provided `T` is not `bool`)

[endsect]

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Jeff Garland
&© 2000-2002
Maybe this should pass?

===========================================================================
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[/============================================================================
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/*
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 * Boost Software License, Version 1.0. (See accompanying file
 * LICENSE_1_0.txt or copy at http://www.boost.org/LICENSE_1_0.txt)
 */

#include "licence_info.hpp"
#include "bcp_imp.hpp"
#include "fileview.hpp"
#include <fstream>
#include <iomanip>
#include <cstring>
#include <stdexcept>
#include <boost/lexical_cast.hpp>
#include <boost/filesystem/operations.hpp>
#include <boost/throw_exception.hpp>

//
// split_path is a small helper for outputting a path name,
// complete with a link to that path:
//
struct split_path
{
    const fs::path& root;
    const fs::path& file;
    split_path(const fs::path& r, const fs::path& f)
        : root(r), file(f) {}
private:
    split_path& operator=(const split_path&);
};

std::ostream& operator << (std::ostream& os, const split_path& p)
{
    os << "<a href="" << (p.root / p.file).string() << ")"" << p.file.string() << "></a>";
    return os;
}

std::string make_link_target(const std::string& s)
{
    // convert an arbitrary string into something suitable
    // for an <a> name:
    std::string result;
    for(unsigned i = 0; i < s.size(); ++i)
    {
        result.append(1, static_cast<std::string::value_type>(std::isalnum(s[i]) ? s[i] : '_'));
    }
    return result;
}

void bcp_implementation::output_license_info()
{
    std::pair<const license_info*, int> licenses = get_licenses();

    std::map<int, license_data>::const_iterator i, j;
    i = m_license_data.begin();
    j = m_license_data.end();

    std::ofstream os(m_dest_path.string().c_str());
    if(!os)
    {
        std::string msg("Error opening ");
        msg += m_dest_path.string();
        msg += " for output.");
        std::runtime_error e(msg);
        boost::throw_exception(e);
    }
    os <<
    "<!DOCTYPE HTML PUBLIC \"-//W3C//DTD HTML 4.0 Transitional//EN\"\
    "\n"
"<html>
"<head>
"<title>Boost Licence Dependency Information";
if(m_module_list.size() == 1)
{
    os << " for " << *(m_module_list.begin());
}
os << "</title>
"<head>
"<body>
"<h1>Boost Licence Dependency Information";
if(m_module_list.size() == 1)
{
    os << " for " << *(m_module_list.begin());
}
os << "</h1>
"<h2>Contents</h2>
"<pre><a href="#input">Input Information</a>
"<a href="#summary">Licence Summary</a>
"<a href="#details">Licence Details</a>
"<a href="#files">Files with no recognised license</a>
"<a href="#authors">Files with no recognised copyright holder</a>
"<a href="#depend">File Dependency Information</a>
"<a href="#to-bsl">Files that can be manually converted to the Boost Software License</a>
"<a href="#not-to-bsl">Files that can NOT be moved to the Boost Software License</a>
"<a href="#need-bsl-authors">Authors we need to move to the Boost Software License</a>
"<a href="#copyright">Copyright Holder Information</a>
"<a href="#depend">File Dependency Information</a>
"</pre>
"
// input Information:
//
// os << "<a name="input"></a><h2>Input Information</h2>\n";
if(m_scan_mode)
    os << "<p>The following files were scanned for boost dependencies:\n";
else
    os << "<p>The following Boost modules were checked:\n";

std::list<std::string>::const_iterator si = m_module_list.begin();
std::list<std::string>::const_iterator sj = m_module_list.end();
while(si != sj)
{
    os << *si << "\n";
    ++si;
}

os << "</p><p>The Boost path was: <code>" << m_boost_path.string() << "</code></p>";

// extract the boost version number from the boost directory tree,
// not from this app (which may have been built from a previous
// version):
//
// fileview version_file(m_boost_path / "boost/version.hpp");
static const boost::regex version_regex(
    "#define BOOST_VERSION(\d+)/\d+\d+\d+"); boost::cmatch what;
if(boost::regex_search(version_file.begin(), version_file.end(), what, version_regex))
{
    int version = boost::lexical_cast<int>(what.str(1));
    os << "<p>The Boost version is: " << version / 100000 << "." << version / 100 % 100 << "." << version % 100 << "\n";
}

// output each license:
//
// i = m_license_data.begin();
// j = m_license_data.end();
// if(!m_bsl_summary_mode)
// {
//     // start with the summary:
//     //
//     os << "<a name="summary"></a><h2>Licence Summary</h2>\n";
//     while(i != j)
//     {
//         // title:
//         os << 


// license text:
os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";

// Copyright holders:
os << "<P>This license is used by " << i->second.authors.size() << " authors and " << i->second.files.size() << " files <a href="#" make_link_target(licenses.first[i->first].license_name) ">(see details)</a>";
os << "</P><BLOCKQUOTE>\n";
++i;
}

// and now the details:
//
i = m_license_data.begin();
j = m_license_data.end();
int license_index = 0;
os << "<a name="details"></a><h2>Licence Details</h2>
while(i != j)
{

// title:
os << "<H3><A name="" make_link_target(licenses.first[i->first].license_name) ""></a>" << licenses.first[i->first].license_name << "</H3>\n";

// license text:
os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
if(!m_bsl_summary_mode || (license_index >= 3))
{

// Copyright holders:
os << "<P>This license is used by the following " << i->second.authors.size() << " copyright holders:";
std::set<std::string>::const_iterator x, y;
x = i->second.authors.begin();
y = i->second.authors.end();
while(x != y)
{
os << *x << "\n";
++x;
}
os << "</P><BLOCKQUOTE>\n";

// Files using this license:
os << "<P>This license applies to the following " << i->second.files.size() << " files:";
std::set<fs::path, path_less>::const_iterator m, n;
m = i->second.files.begin();
n = i->second.files.end();
while(m != n)
{
// Output list of files not found to be under license control:
//
// os << "<h2><a name="files"></a>Files With No Recognisable Licence</h2>\n"
"<p>The following " << m_unknown_licenses.size() << " files had no recognisable license information:</p> <BLOCKQUOTE><P>
std::set<fs::path, path_less>::const_iterator i2, j2;
i2 = m_unknown_licenses.begin();
j2 = m_unknown_licenses.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "\n";
    ++i2;
}
    os << "</p></BLOCKQUOTE>";
//
// Output list of files with no found copyright holder:
//
// os << "<h2><a name="authors"></a>Files With No Recognisable Copyright Holder</h2>\n"
"<p>The following " << m_unknown_authors.size() << " files had no recognisable copyright holder:</p> <BLOCKQUOTE><P>
i2 = m_unknown_authors.begin();
j2 = m_unknown_authors.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "\n";
    ++i2;
}
    os << "</p></BLOCKQUOTE>";
if(!m_bsl_summary_mode)
{
    // Output list of files that have been moved over to the Boost Software License, along with enough information for human verification.
Files that can be automatically converted to the Boost Software License

Files that could be converted to the Boost Software License, but have not yet been:

Files that can NOT be converted to the Boost Software License because we need the permission of more authors:
++i2;
}
os << "</p></BLOCKQUOTE>";
//
// Output list of authors that we need permission for to move to the BSL
//
os << "<h2><a name="need-bsl-authors"></a>Authors we need for the BSL</h2><p>
"Permission of the following authors is needed before we can convert to the Boost Software License. The list of authors that have given their permission is contained in <code>more/blanket-permission.txt</code>.

```cpp
std::copy(m_authors_for_bsl_migration.begin(), m_authors_for_bslMigration.end(),
    std::ostream_iterator<std::string>(os, "\n"));
os << "</p></BLOCKQUOTE>";
//
// output a table of copyright information:
//
os << "<H2><a name="copyright"></a>Copyright Holder Information</h2><table border="1" cellspacing="0">";
std::map<std::string, std::set<fs::path, path_less>> ad, ead;
ad = m_author_data.begin();
ead = m_author_data.end();
while(ad != ead)
{
    os << "<tr><td>" << ad->first << "</td><td>";
    std::set<fs::path, path_less>::const_iterator fi, efi;
    fi = ad->second.begin();
efi = ad->second.end();
    while(fi != efi)
    {
        os << split_path(m_boost_path, *fi) << " ";
        ++fi;
    }
    os << "</td></tr><tr>";
    ++ad;
}
os << "</table><p>"
}
//
// output file dependency information:
//
os << "<H2><a name="depend"></a>File Dependency Information</h2><BLOCKQUOTE><pre>
std::map<fs::path, fs::path, path_less> dep, last_dep;
dep = m_copy_paths.begin();
last_dep = m_copy_paths.end();
if(m_bsl_summary_mode)
{...
}
std::map<fs::path, std::pair<std::string, std::string>, path_less>::const_iterator conv_iterator;
conv_iterator i = m_converted_to_bsl.begin(),
ie = m_converted_to_bsl.end();
while(i != ie)
{
    bad_paths.insert(i->first);
    ++i;
}
fi = bad_paths.begin();
efi = bad_paths.end();
os << "<P>For brevity, only files not under the BSL are shown</P>\n";
}
while(fi != efi)
{
os << split_path(m_boost_path, *fi);
dep = m_dependencies.find(*fi);
last_dep = m_dependencies.end();
std::set<fs::path, path_less> seen_deps;
if (dep != last_dep)
    while(true)
    {
os << "  -> ";
    if(fs::exists(m_boost_path / dep->second))
        os << split_path(m_boost_path, dep->second);
    else if(fs::exists(dep->second))
        os << split_path(fs::path(), dep->second);
    else
        os << dep->second.string();
    if(seen_deps.find(dep->second) != seen_deps.end())
        {os << " <I>(Circular dependency!)</I>";
            break; // circular dependency!!!
        }
    seen_deps.insert(dep->second);
    last_dep = dep;
    dep = m_dependencies.find(dep->second);
    if((dep == m_dependencies.end()) || (0 == compare_paths(dep->second, last_dep->second)))
        break;
    os << "\n";
    ++fi;
}
This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM.

Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code.

Jesper Peterson (jep@mtiame.mtia.oz.au), Michel Schinz, and...
Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.
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Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader
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Dave Detlef's(detlef@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks(agec@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the
typed allocation facility. (His dynamic type inference code hasn't
made it into the released version of the collector, yet.)
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Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn't
made it into the released version of the collector, yet.)
This package was debianized by Vladimir Prus <ghost@cs.msu.su> on

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Some portions are also:
#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
#define BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

#if (defined _MSC_VER) && (_MSC_VER >= 1200)
#if pragma_once
#endif
#endif

#include <cstddef>

namespace boost {
namespace container {
namespace container_detail {

template <class T, T val>
struct integral_constant {
    static const T value = val;
    typedef integral_constant<T,val> type;
};

template< bool C_ >
struct bool_ : integral_constant<bool, C_>
{
    static const bool value = C_;
    operator bool() const { return bool_::value; }
};

typedef bool_<true>        true_;  
typedef bool_<false>       false_;  

} // namespace container_detail
} // namespace container
} // namespace boost
typedef true_ true_type;
typedef false_ false_type;

typedef char yes_type;
struct no_type
{
    char padding[8];
};

template <bool B, class T = void>
struct enable_if_c {
    typedef T type;
};

template <class T>
struct enable_if_c<false, T> {};  

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {};  

template <class Cond, class T = void>
struct disable_if : public enable_if_c<!Cond::value, T> {}; 

template <bool B, class T = void>
struct disable_if_c : public enable_if_c<!B, T> {}; 

template <class T, class U>
class is_convertible
{
    typedef char true_t;
    class false_t { char dummy[2]; };  
    static true_t dispatch(U);
    static false_t dispatch(...);
    static T trigger();
    public:
    enum { value = sizeof(dispatch(trigger())) == sizeof(true_t) }; 
};

template <
    bool C
, typename T1
, typename T2
>
struct if_c
{
    typedef T1 type;
};
template<typename T1, typename T2>
struct if_c<false,T1,T2>
{
    typedef T2 type;
};

template<typename T1, typename T2, typename T3>
struct if_
{
    typedef typename if_c<0 != T1::value, T2, T3>::type type;
};

template <class Pair>
struct select1st
//   : public std::unary_function<Pair, typename Pair::first_type>
{
    template<class OtherPair>
    const typename Pair::first_type& operator()(const OtherPair& x) const
    {  return x.first;   }

    const typename Pair::first_type& operator()(const typename Pair::first_type& x) const
    {  return x;   }
};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
//   : public std::unary_function<T,T>
{
    typedef T type;
    const T& operator()(const T& x) const
    { return x; }
};

template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<(S >> 1u)>::value);
};
template<>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
    static const std::size_t value = 0;
};

template <typename T> struct unvoid { typedef T type; }
template <> struct unvoid<void> { struct type { }; }
template <> struct unvoid<const void> { struct type { }; };

} //namespace container_detail {
} //namespace container {
} //namespace boost {

#endif   //#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
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//////////////////////////////////////////////////////////////////////////////

#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
#define BOOST_INTERPROCESS_DETAIL_MPL_HPP
#if (defined _MSC_VER) && (_MSC_VER >= 1200)
#  pragma once
#endif
#include <cstddef>
namespace boost {
namespace interprocess {
namespace ipcdetail {

template <class T, T val>
struct integral_constant
{
    static const T value = val;
    typedef integral_constant<T,val> type;
};

template< bool C_ >
struct bool_ : integral_constant<bool, C_ >
{
    static const bool value = C_ ;
};

typedef bool_<true> true_;
typedef bool_<false> false_;

typedef true_ true_type;
typedef false_ false_type;

typedef char yes_type;
struct no_type
{
    char padding[8];
};

template <bool B, class T = void>
struct enable_if_c
{
    typedef T type;
};

template <class T>
struct enable_if_c<false, T> {};

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {};

template <class Cond, class T = void>
struct disable_if : public enable_if_c<!Cond::value, T> {};

template <class T, class U>
class is_convertible
{
    typedef char true_t;
    class false_t { char dummy[2]; }; 
    static true_t dispatch(U);
    static false_t dispatch(...);
    static T trigger();
    public:
    static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);
template<
    bool C
    , typename T1
    , typename T2
>
struct if_c
{
    typedef T1 type;
};

template<
    typename T1
    , typename T2
>
struct if_c<false,T1,T2>
{
    typedef T2 type;
};

template<
    typename T1
    , typename T2
    , typename T3
>
struct if_
{
    typedef typename if_c<0 != T1::value, T2, T3>::type type;
};

template <class Pair>
struct select1st
// : public std::unary_function<Pair, typename Pair::first_type>
{
    template<class OtherPair>
    const typename Pair::first_type& operator()(const OtherPair& x) const
    {  return x.first;  }

    const typename Pair::first_type& operator()(const typename Pair::first_type& x) const
    {  return x;  }
};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
// : public std::unary_function<T,T>
typedef T type;
const T& operator()(const T& x) const
{ return x; }
};

template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<(S >> 1u)>::value);
};

template<>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
    static const std::size_t value = 0;
};

} //namespace ipcdetail {
} //namespace interprocess {
} //namespace boost {

#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
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////////////////////////////////////////////////////////////////////////////
#endif //ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP

#ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP
#endif //ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP
namespace intrusive {
namespace detail {

typedef char one;
struct two {one _[2];};

template< bool C_ >
struct bool_
{
  static const bool value = C_;
};

typedef bool_<true> true_;
typedef bool_<false> false_;

typedef true_ true_type;
typedef false_ false_type;

typedef char yes_type;
struct no_type
{
  char padding[8];
};

template <bool B, class T = void>
struct enable_if_c {
  typedef T type;
};
template <class T>
struct enable_if_c<false, T> {};

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {};

template<class F, class Param>
struct apply
{
  typedef typename F::template apply<Param>::type type;
};

template <class T, class U>
class is_convertible
{
  typedef char true_t;
  class false_t { char dummy[2]; }; 
  static true_t dispatch(U);
  static false_t dispatch(...);
}
static const T &trigger();
public:
static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);
};

template<
    bool C
 , typename T1
 , typename T2
>
struct if_c
{
    typedef T1 type;
};

template<
    typename T1
 , typename T2
>
struct if_c<false,T1,T2>
{
    typedef T2 type;
};

template<
    typename C
 , typename T1
 , typename T2
>
struct if_
{
    typedef typename if_c<0 != C::value, T1, T2>::type type;
};

template<
    bool C
 , typename F1
 , typename F2
>
struct eval_if_c
 : if_c<F1,F2>::type
{
};

template<
    typename C
 , typename T1
 , typename T2
>
struct eval_if
    : if_<C,T1,T2>::type
{};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
{
    typedef T type;
};

#if defined(BOOST_MSVC) || defined(__BORLANDC__)
#define BOOST_INTRUSIVE_TT_DECL __cdecl
#else
#define BOOST_INTRUSIVE_TT_DECL
#endif
#if defined(_MSC_EXTENSIONS) && !defined(__BORLAND__) && !defined(_WIN64) && !defined(UNDER_CE)
#define BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS
#endif

template <typename T>
struct is_unary_or_binary_function_impl
{
    static const bool value = false;
};

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
#ifndef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R>
struct is_unary_or_binary_function_impl<R (*)()>
{
    static const bool value = true;
};

template <typename R>
struct is_unary_or_binary_function_impl<R (*)(...)> 
{
    static const bool value = true;
};

#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R>
struct is_unary_or_binary_function_impl<R (__stdcall*)()>
{
    static const bool value = true;
};

#ifndef _MANAGED

template <typename R>
struct is_unary_or_binary_function_impl<R (__fastcall*)()>
{
    static const bool value = true;
};

#endif

#endif
{ static const bool value = true; };

#endif

template <typename R>
struct is_unary_or_binary_function_impl<R (__cdecl*)(...)>
{ static const bool value = true; };

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
#ifndef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (*)(T0)>  
{ static const bool value = true; };

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (*)(T0...)>
{ static const bool value = true; };
#endif

#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R(__stdcall*)(T0)>  
{ static const bool value = true; };

#ifndef _MANAGED

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R(__fastcall*)(T0)>  
{ static const bool value = true; };
#endif

#endif

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0)>  
{ static const bool value = true; };

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0...)>
{ static const bool value = true; };
#ifndef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (*)(T0, T1)>
{  static const bool value = true;  };

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (*)(T0, T1...)>  
{  static const bool value = true;  };

#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__stdcall*)(T0, T1)>  
{  static const bool value = true;  };

#elifndef _MANAGED

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__fastcall*)(T0, T1)>  
{  static const bool value = true;  };

#elifndef _MANAGED

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0, T1...)>  
{  static const bool value = true;  };

#endif

#endif

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl

template <typename T>
struct is_unary_or_binary_function_impl<T&>
{  static const bool value = false;  };

template<typename T>
struct is_unary_or_binary_function
{  static const bool value = is_unary_or_binary_function_impl<T>::value;  };

//boost::alignment_of yields to 10K lines of preprocessed code, so we
//need an alternative
struct alignment_of;
template <typename T>
struct alignment_of_hack
{
    char c;
    T t;
    alignment_of_hack();
};

template <unsigned A, unsigned S>
struct alignment_logic
{
    static const std::size_t value = A < S ? A : S;
};

template <typename T>
struct alignment_of
{
    static const std::size_t value = alignment_logic
        < sizeof(alignment_of_hack<T>) - sizeof(T)
        , sizeof(T)
        >::value;
};

template <typename T, typename U>
struct is_same
{
    typedef char yes_type;
    struct no_type
    {
        char padding[8];
    };

    template <typename V>
    static yes_type is_same_tester(V*, V*);
    static no_type is_same_tester(...);

    static T *t;
    static U *u;

    static const bool value = sizeof(yes_type) == sizeof(is_same_tester(t,u));
};

template <typename T>
struct add_const
{
    typedef const T type;
};

template <typename T>
struct remove_const
{ typedef T type; };  

template<typename T>
struct remove_const<const T>
{ typedef T type; };  

template<typename T>
struct remove_cv
{ typedef T type; };  

template<typename T>
struct remove_cv<const T>
{ typedef T type; };  

template<typename T>
struct remove_cv<const volatile T>
{ typedef T type; };  

template<typename T>
struct remove_cv<volatile T>
{ typedef T type; };  

template<typename T>
struct remove_cv<T&>
{ typedef T type; };  

template<typename T>
struct remove_reference<T&>
{ typedef T type; };  

template<typename Class>
class is_empty_class
{  
  template<typename T>
  struct empty_helper_t1 : public T
  {  
    empty_helper_t1();
    int i[256];
  };  
  
  struct empty_helper_t2
  { int i[256]; };  
};
public:
    static const bool value = sizeof(empty_helper_t1<Class>) == sizeof(empty_helper_t2);
};

template<\sizet S>
struct ls_zeros
{
    static const std::sizet value = (\sizet S & std::sizet(1)) ? 0 : (1 + ls_zeros<(S>>1u)>::value);
};

template<>
struct ls_zeros<0>
{
    static const std::sizet value = 0;
};

template<>
struct ls_zeros<1>
{
    static const std::sizet value = 0;
};

#include <boost/intrusive/detail/config_end.hpp>

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/*
 *
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 * Boost Software License, Version 1.0. (See accompanying file
 * LICENSE_1_0.txt or copy at http://www.boost.org/LICENSE_1_0.txt)
 *
 */
#include "licence_info.hpp"
#include "bcp_imp.hpp"
#include "fileview.hpp"
#include <fstream>
#include <iomanip>
#include <cstring>
#include <stdexcept>
#include <boost/lexical_cast.hpp>
#include <boost/filesystem/operations.hpp>
#include <boost/throw_exception.hpp>

//
// split_path is a small helper for outputting a path name,
// complete with a link to that path:
//
// struct split_path
// {
//    const fs::path& root;
//    const fs::path& file;
//    split_path(const fs::path& r, const fs::path& f)
//        : root(r), file(f){}
//private:
split_path& operator=(const split_path&);
};

std::ostream& operator << (std::ostream& os, const split_path& p)
{
    os << "<a href="" << (p.root / p.file).string() << ">" "" << p.file.string() << "</a>";
    return os;
}

std::string make_link_target(const std::string& s)
{
    // convert an arbitrary string into something suitable
    // for an <a> name:
    std::string result;
    for(unsigned i = 0; i < s.size(); ++i)
    {
        result.append(1, static_cast<std::string::value_type>(std::isalnum(s[i]) ? s[i] : '_'));
    }
    return result;
}

void bcp_implementation::output_license_info()
{
    std::pair<const license_info*, int> licenses = get_licenses();

    std::map<int, license_data>::const_iterator i, j;
    i = m_license_data.begin();
    j = m_license_data.end();

    std::ofstream os(m_dest_path.string().c_str());
    if(!os)
    {
        std::string msg("Error opening ");
        msg += m_dest_path.string();
        msg += " for output."
        std::runtime_error e(msg);
        boost::throw_exception(e);
    }
    os <<
        "<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN">
        "
        "<html>
        ""<head>
        ""<title>Boost Licence Dependency Information"
        if(m_module_list.size() == 1)
        {
            os "" "" for "" ""=" ""(m_module_list.begin());
        }
os <<
"<title>"n"
"<head>"n"
"<body>"n"
"<H1>Boost Licence Dependency Information";
if(m_module_list.size() == 1)
{
  os << " for " << *(m_module_list.begin());
}
os <<
"</H1>"n"
"<H2>Contents</h2>"n"
"<pre><a href="#input">Input Information</a>
if(!m_bsl_summary_mode)
  os << " <a href="#summary">Licence Summary</a> </a>"n"
  os << " <a href="#details">Licence Details</a> </a>"n"
while(i != j)
{
  // title:
  os << " <A href="#" " make_link_target(licenses.first[i->first].license_name)"
  "">" "i" " " licenses.first[i->first].license_name " </a>"n"
  ++i;
}

os << " <a href="#files">Files with no recognised license</a> "n"
" <a href="#authors">Files with no recognised copyright holder</a> "n"
if(!m_bsl_summary_mode)
{
  os << "Moving to the Boost Software License...
  " <a href="#bsl-converted">Files that can be automatically converted to the Boost Software License</a> "n"
  " <a href="#to-bsl">Files that can be manually converted to the Boost Software License</a> "n"
  " <a href="#not-to-bsl">Files that can NOT be moved to the Boost Software License</a> "n"
  " <a href="#need-bsl-authors">Authors we need to move to the Boost Software License</a> "n"
  " <a href="#copyright">Copyright Holder Information</a> "n"
}

os <<
" <a href="#depend">File Dependency Information</a> "n"
"</pre>"n"

//
// input Information:
//

os << " <a name="input">"n"
"<h2>Input Information</h2>"n"
if(m_scan_mode)
  os << "The following files were scanned for boost dependencies:"n";
else
The following Boost modules were checked:

```
std::list<std::string>::const_iterator si = m_module_list.begin();
std::list<std::string>::const_iterator sj = m_module_list.end();
while(si != sj)
{
    os << *si << '<BR>
    ++si;
}
```

The Boost path was: <code>`</code> << m_boost_path.string() << '</code>
```
// extract the boost version number from the boost directory tree,
// not from this app (which may have been built from a previous
// version):
//
fileview version_file(m_boost_path / "boost/version.hpp");
static const boost::regex version_regex(
    "^[[:blank:]]*\#define[[:blank:]]+BOOST_VERSION[[:blank:]]+(\d+)";
boost::cmatch what;
if(boost::regex_search(version_file.begin(), version_file.end(), what, version_regex))
{
    int version = boost::lexical_cast<int>(what.str(1));
    os << '<p>The Boost version is: " << version / 100000 << ". " << version / 100 % 100 << ". " << version % 100
    << '</p>
```

// output each license:
```
i = m_license_data.begin();
j = m_license_data.end();
if(!m_bsl_summary_mode)
{
    // start with the summary:
    //
    os << '<a name="summary"></a><h2>Licence Summary</h2>
    while(i != j)
    {
        // title:
        os << "<H3>" << licenses.first[i->first].license_name << '</H3>
        // license text:
        os << '<BLOCKQUOTE>" << licenses.first[i->first].license_text << '</BLOCKQUOTE>";
        // Copyright holders:
        os << '<P>This license is used by " << i->second.authors.size()
        << " authors and " << i->second.files.size()
        << " files <a href="" << make_link_target(licenses.first[i->first].license_name) << '�' << (see details)</a>";
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os << "</P></BLOCKQUOTE>\n";
++i;
}
}
//
// and now the details:
//
i = m_license_data.begin();
j = m_license_data.end();
int license_index = 0;
os << "<a name="details"></a><h2>Licence Details</h2>
while(i != j)
{
    // title:
os << "<H3><A name="" << make_link_target/licenses.first[i->first].license_name"
<< ""></A>" << licenses.first[i->first].license_name << "</H3>\n";
    // license text:
os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
if(!m_bsl_summary_mode || (license_index >= 3))
{
    // Copyright holders:
os << "<P>This license is used by the following " << i->second.authors.size() << " copyright
holders:<P>\n<BLOCKQUOTE><P>
std::set<
    x = i->second.authors.begin();
y = i->second.authors.end();
while(x != y)
{
    os << *x << "<BR>\n";
    ++x;
}
os << "</P></BLOCKQUOTE>\n";
    // Files using this license:
os << "<P>This license applies to the following " << i->second.files.size() << " files:<P>\n<BLOCKQUOTE><P>";
std::set<
    m = i->second.files.begin();
n = i->second.files.end();
while(m != n)
{
    os << split_path(m_boost_path, *m) << "<br>\n";
    ++m;
}
os << "</P></BLOCKQUOTE>\n";
}
else
{
This license is used by \( \text{second.authors.size()} \) authors (list omitted for brevity).

This license applies to \( \text{second.files.size()} \) files (list omitted for brevity).

++license_index;
++i;

// Output list of files not found to be under license control:
//
os << "<h2><a name="files"></a>Files With No Recognisable Licence</h2>\n"
"<P>The following \( \text{m_unknown_licenses.size()} \) files had no recognisable license information:\n
std::set<fs::path, path_less>::const_iterator i2, j2;
i2 = m_unknown_licenses.begin();
j2 = m_unknown_licenses.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "<br>\n";
    ++i2;
}
os << "</p></BLOCKQUOTE>";

//
// Output list of files with no found copyright holder:
//
os << "<h2><a name="authors"></a>Files With No Recognisable Copyright Holder</h2>\n"
"<P>The following \( \text{m_unknown_authors.size()} \) files had no recognisable copyright holder:\n
i2 = m_unknown_authors.begin();
j2 = m_unknown_authors.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "<br>\n";
    ++i2;
}
os << "</p></BLOCKQUOTE>";
if(!m_bsl_summary_mode)
{
    //
    // Output list of files that have been moved over to the Boost
    // Software License, along with enough information for human
    // verification.
    //
    os << "<h2><a name="bsl-converted"></a>Files that can be automatically converted to the Boost Software License</h2>\n"
"<p>The following \( \text{m_converted_to_bsl.size()} \) files can be automatically converted to the Boost Software License, but require manual verification before they can be committed to CVS:\n
if (!m_converted_to_bsl.empty())
{
typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>::const_iterator conv_iterator;

conv_iterator i = m_converted_to_bsl.begin(), ie = m_converted_to_bsl.end();

int file_num = 1;
while (i != ie)
{
    os << "<P>[" << file_num << "] File: <tt>" << split_path(m_boost_path, i->first)
        << "</tt><br>
        <table border="1">" << i->second.first << "</pre></td>
        " << i->second.second << "</pre></td>
        <tr><td><table>
    ++i;
    ++file_num;
}

// Output list of files that could be moved over to the Boost Software License

os << "<h2><a name="to-bsl"></a>Files that could be converted to the Boost Software License</h2>
" << m_can_migrate_to_bsl.size() << " files could be manually converted to the Boost Software License,
but have not yet been:
<P><BLOCKQUOTE><P>
    i2 = m_can_migrate_to_bsl.begin();
    j2 = m_can_migrate_to_bsl.end();
    while(i2 != j2)
    {
        os << split_path(m_boost_path, *i2) << "<br>
        ++i2;
    }
    os << "</p></BLOCKQUOTE>
";

// Output list of files that can not be moved over to the Boost Software License

os << "<h2><a name="not-to-bsl"></a>Files that can NOT be converted to the Boost Software License</h2>
" << m_cannot_migrate_to_bsl.size() << " files cannot be converted to the Boost Software License
because we need the permission of more authors:
<P><BLOCKQUOTE><P>
    i2 = m_cannot_migrate_to_bsl.begin();
    j2 = m_cannot_migrate_to_bsl.end();
    while(i2 != j2)
    {
        os << split_path(m_boost_path, *i2) << "<br>
        ++i2;
    }
    os << "</p></BLOCKQUOTE>
";

// Output list of authors that we need permission for to move to the BSL

os << "<h2><a name="need-bsl-authors"></a>Authors we need for the BSL</h2>
";
Permission of the following authors is needed before we can convert to the Boost Software License. The list of authors that have given their permission is contained in <code>more/blanket-permission.txt</code>.

```cpp
std::copy(m_authors_for_bsl_migration.begin(), m_authors_for_bsl_migration.end(),
          std::ostream_iterator<std::string>(os, "<br>
"));
```

// output a table of copyright information:

```cpp
os << "<H2><a name="copyright"></a>Copyright Holder Information</H2><table border="1"
"n";
std::map<std::string, std::set<fs::path, path_less> >::const_iterator ad, ead;
```

```cpp
ad = m_author_data.begin();
ead = m_author_data.end();
```

```cpp
while(ad != ead)
{
    os << "<tr><td>" << ad->first << "</td><td>";
    std::set<fs::path, path_less>::const_iterator fi, efi;
    fi = ad->second.begin();
efi = ad->second.end();
    while(fi != efi)
    {
        os << split_path(m_boost_path, *fi) << " ";
        ++fi;
    }
    os << "</td></tr><n";
    ++ad;
}
```

```cpp
os << "</table><n";
```

// output file dependency information:

```cpp
os << "<H2><a name="depend"></a>File Dependency Information</H2><BLOCKQUOTE><pre>
std::map<fs::path, fs::path, path_less>::const_iterator dep, last_dep;
sdt::set<fs::path, path_less>::const_iterator fi, efi;
```

```cpp
fi = m_copy_paths.begin();
efi = m_copy_paths.end();
```

```cpp
// if in summary mode, just figure out the "bad" files and print those only:
std::set<fs::path, path_less> bad_paths;
if(m_bsl_summary_mode)
{
    bad_paths.insert(m_unknown_licenses.begin(), m_unknown_licenses.end());
    bad_paths.insert(m_unknown_authors.begin(), m_unknown_authors.end());
    bad_paths.insert(m_can_migrate_to_bsl.begin(), m_can_migrate_to_bsl.end());
    bad_paths.insert(m_cannot_migrate_to_bsl.begin(), m_cannot_migrate_to_bsl.end());
    typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>
::const_iterator conv_iterator;
```
conv_iterator i = m_converted_to_bsl.begin(),
        ie = m_converted_to_bsl.end();

while(i != ie)
{
    bad_paths.insert(i->first);
    ++i;
}
fi = bad_paths.begin();
efi = bad_paths.end();

os << "<P>For brevity, only files not under the BSL are shown</P>

while(fi != efi)
{
    os << split_path(m_boost_path, *fi);
    dep = m_dependencies.find(*fi);
    last_dep = m_dependencies.end();
    std::set<fs::path, path_less> seen_deps;
    if (dep != last_dep)
        while(true)
        {
            os << " -> ";
            if(fs::exists(m_boost_path / dep->second))
                os << split_path(m_boost_path, dep->second);
            else if(fs::exists(dep->second))
                os << split_path(fs::path(), dep->second);
            else
                os << dep->second.string();
            if(seen_deps.find(dep->second) != seen_deps.end())
            {
                os << " <I>(Circular dependency!)</I>";
                break; // circular dependency!!!
            }
            seen_deps.insert(dep->second);
            last_dep = dep;
            dep = m_dependencies.find(dep->second);
            if((dep == m_dependencies.end()) || (0 == compare_paths(dep->second, last_dep->second)))
                break;
        }
    os << "\n";
    ++fi;
}

os << "</pre></BLOCKQUOTE>\n"

os << "</body></html>"

if(!os)
{
    std::string msg("Error writing to ");
}
msg += m_dest_path.string();
msg += ".";
std::runtime_error e(msg);
boost::throw_exception(e);
}
}

Index: boost/mpl/print.hpp

===================================================================
--- boost/mpl/print.hpp (revision 83411)
+++ boost/mpl/print.hpp (working copy)
@@ -45,22 +45,21 @@
  : mpl::identity<T>
 #if defined(__MWERKS__)
  , aux::print_base
-#endif
+#endif
+

 #if defined(BOOST_MSVC)
  enum { n = sizeof(T) + -1 }; 
 #elif defined(__MWERKS__)
-  void f(int);
+#endif

-  enum {
-    n =
-# if defined(__EDG_VERSION__)
-       aux::dependent_unsigned<T>::value > -1 
-# else
-       sizeof(T) > -1
-# endif 
-    sizeof(T) > -1
-# endif
-  }; 
-#endif
+  enum { n = aux::dependent_unsigned<T>::value > -1 };
+  enum { n1 };
+  enum { n2 };
+  enum { n = n1 != n2 };
+  if defined(BOOST_GCC)
+  enum { n = sizeof(T) > -1 };
+  #endif
+

 #if defined(BOOST_MSVC)
 /////////////////////////////////////////////////////////////////////////
 //
// (C) Copyright Ion Gaztanaga 2006-2012
//


namespace boost {
namespace intrusive {
namespace detail {

typedef char one;
struct two {one _[2];};

template< bool C_ >
struct bool_
{
  static const bool value = C_;}
;

typedef bool_<true>  true_;
typedef bool_<false> false_;

typedef true_  true_type;
typedef false_ false_type;

typedef char yes_type;
struct no_type
{
  char padding[8];
};

template <bool B, class T = void>
struct enable_if_c {
  typedef T type;
};

template <class T>
struct enable_if_c<T, false> {};

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {};

template<class F, class Param>
struct apply
{
    typedef typename F::template apply<Param>::type type;
};

template <class T, class U>
class is_convertible
{
    typedef char true_t;
    class false_t { char dummy[2]; }; static true_t dispatch(U); static false_t dispatch(...); static const T &trigger();
    public:
        static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);
};

template<
    bool C
    , typename T1
    , typename T2
>
struct if_c
{
    typedef T1 type;
};

template<
    typename T1
    , typename T2
>
struct if_c<false,T1,T2>
{
    typedef T2 type;
};

template<
    typename C
    , typename T1
    , typename T2
>
struct if_
{
    typedef typename if_c<0 != C::value, T1, T2>::type type;
};
template<
  bool C
 , typename F1
 , typename F2
>
struct eval_if_c
  : if_c<C,F1,F2>::type
{};

template<
  typename C
 , typename T1
 , typename T2
>
struct eval_if
  : if_<C,T1,T2>::type
{};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
{
  typedef T type;
};

#if defined(BOOST_MSVC) || defined(__BORLANDC__)
#define BOOST_INTRUSIVE_TT_DECL __cdecl
#else
#define BOOST_INTRUSIVE_TT_DECL
#endif
#if defined(_MSC_EXTENSIONS) && !defined(__BORLAND__) && !defined(_WIN64) && !defined(UNDER_CE)
#define BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS
#endif

template <typename T>
struct is_unary_or_binary_function_impl
{
  static const bool value = false;
};

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
#ifndef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS
#endif

template <typename R>
struct is_unary_or_binary_function_impl<R (*)(*)>
{
  static const bool value = true;
};
template <typename R>
struct is_unary_or_binary_function_impl<R (*)(...)>
{ static const bool value = true; };

#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R>
struct is_unary_or_binary_function_impl<R (__stdcall*)()>
{ static const bool value = true; };
#endif

#ifndef _MANAGED

template <typename R>
struct is_unary_or_binary_function_impl<R (__fastcall*)()>
{ static const bool value = true; };
#endif

template <typename R>
struct is_unary_or_binary_function_impl<R (__cdecl*)()>
{ static const bool value = true; };

template <typename R>
struct is_unary_or_binary_function_impl<R (__cdecl*)(...)>
{ static const bool value = true; };
#endif

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
#ifndef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

#endif

// template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (*)(T0)>
{ static const bool value = true; };

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (*)(T0...)>
{ static const bool value = true; };
#endif

#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (__stdcall*)(T0)>  
{ static const bool value = true; };
#endif

#ifndef _MANAGED

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0)>  
{ static const bool value = true; };
#endif
template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (__fastcall*)(T0)>
{  static const bool value = true;  };

#endif

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0)>
{  static const bool value = true;  };

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0...)>
{  static const bool value = true;  };

#endif

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
#ifndef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (*)(T0, T1)>
{  static const bool value = true;  };

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (*)(T0, T1...)>
{  static const bool value = true;  };
#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__stdcall*)(T0, T1)>
{  static const bool value = true;  };

#ifndef _MANAGED

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__fastcall*)(T0, T1)>
{  static const bool value = true;  };
#endif

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0, T1)>
{  static const bool value = true;  };
#endif // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0, T1...)>
{  static const bool value = true;  };

#endif // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__stdcall*)(T0, T1)>
{  static const bool value = true;  };
#endif // _MANAGED

#undef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS
declare BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

struct is_unary_or_binary_function_impl<R (__cdecl*)(T0, T1...)]
{  static const bool value = true;  };
#endif

template <typename T>
struct is_unary_or_binary_function_impl<T&>
{  static const bool value = false;  };

template<typename T>
struct is_unary_or_binary_function
{  static const bool value = is_unary_or_binary_function_impl<T>::value;  };

//boost::alignment_of yields to 10K lines of preprocessed code, so we
//need an alternative

template <typename T> struct alignment_of;

template <typename T>
struct alignment_of_hack
{
    char c;
    T t;
    alignment_of_hack();
};

template <unsigned A, unsigned S>
struct alignment_logic
{
    static const std::size_t value = A < S ? A : S;
};

template< typename T >
struct alignment_of
{
    static const std::size_t value = alignment_logic
        < sizeof(alignment_of_hack<T>) - sizeof(T)
        , sizeof(T)
        >::value;
};

template <typename T, typename U>
struct is_same
{
    typedef char yes_type;
    struct no_type
    {
        char padding[8];
    };
};
template <typename V>
static yes_type is_same_tester(V*, V*);
static no_type is_same_tester(...);

static T *t;
static U *u;

static const bool value = sizeof(yes_type) == sizeof(is_same_tester(t,u));
};

template<typename T>
struct add_const
{ typedef const T type; };  

template<typename T>
struct remove_const
{ typedef T type; };  

template<typename T>
struct remove_const< const T>
{ typedef T type; };  

template<typename T>
struct remove_cv
{ typedef T type; };  

template<typename T>
struct remove_cv<const T>
{ typedef T type; };  

template<typename T>
struct remove_cv< const volatile T>
{ typedef T type; };  

template<typename T>
struct remove_cv< volatile T>
{ typedef T type; };  

template<class T>
struct remove_reference
{  
typedef T type; 
};  

template<class T>
struct remove_reference<T&>
{  
typedef T type; 
};
template<class Class>
class is_empty_class
{
    template<typename T>
    struct empty_helper_t1 : public T
    {
        empty_helper_t1();
        int i[256];
    };

    struct empty_helper_t2
    { int i[256]; }; public:
    static const bool value = sizeof(empty_helper_t1<Class>) == sizeof(empty_helper_t2);
};

template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1 + ls_zeros<S>>(S>>1u)::value);
};

template<>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
    static const std::size_t value = 0;
};

} //namespace detail
} //namespace intrusive
} //namespace boost

#include <boost/intrusive/detail/config_end.hpp>

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//

//////////////////////////////////////////////////////////////////////////////

#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
#define BOOST_INTERPROCESS_DETAIL_MPL_HPP

#if (defined _MSC_VER) && (_MSC_VER >= 1200)
#  pragma once
#endif

#include <cstddef>
namespace boost {
namespace interprocess {
namespace ipcdetail {

template <class T, T val>
struct integral_constant
{
    static const T value = val;
    typedef integral_constant<T,val> type;
};

template< bool C_ >
struct bool_ : integral_constant<bool, C_>
{
    static const bool value = C_;
};

typedef bool_<true> true_;
typedef bool_<false> false_;
typedef true_ true_type;
typedef false_ false_type;

typedef char yes_type;
struct no_type
{
    char padding[8];
};

template <bool B, class T = void>
struct enable_if_c {
typedef T type;
;

template <class T>
struct enable_if_c<false, T> {};

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {};

template <class Cond, class T = void>
struct disable_if : public enable_if_c<!Cond::value, T> {};

template <class T, class U>
class is_convertible
{
  typedef char true_t;
  class false_t { char dummy[2]; };
  static true_t dispatch(U);
  static false_t dispatch(...);
  static T trigger();
  public:
  static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);
};

template<
  bool C,
  , typename T1
  , typename T2
>
struct if_c
{
  typedef T1 type;
};

template<
  , typename T1
  , typename T2
>
struct if_c<false,T1,T2>
{
  typedef T2 type;
};

template<
  , typename T1
  , typename T2
  , typename T3
>

struct if_
{
    typedef typename if_<0 != T1::value, T2, T3>::type type;
};

template <class Pair>
struct select1st
// : public std::unary_function<Pair, typename Pair::first_type>
{
    template<class OtherPair>
    const typename Pair::first_type& operator()(const OtherPair& x) const
    {  return x.first;  }

    const typename Pair::first_type& operator()(const typename Pair::first_type& x) const
    {  return x;  }
};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
// : public std::unary_function<T,T>
{
    typedef T type;
    const T& operator()(const T& x) const
    { return x; }
};

template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<(S >> 1u)>::value);
};

template<>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
    static const std::size_t value = 0;
};

}  //namespace ipcdetail {  
}  //namespace interprocess {
namespace boost {

#if (defined _MSC_VER) && (_MSC_VER >= 1200)
#define BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
#endif

namespace boost {
    namespace container {
        namespace container_detail {

            template <class T, T val>
            struct integral_constant {
                static const T value = val;
                typedef integral_constant<T,val> type;
            };

            template< bool C_ >
            struct bool_ : integral_constant<bool, C_> {
                static const bool value = C_;
                operator bool() const { return bool_::value; }
            };

            typedef bool_<true>        true_;
            typedef bool_<false>       false_;

            typedef true_  true_type;
            typedef false_ false_type;
        } // namespace container_detail
    } // namespace container
} // namespace boost
typedef char yes_type;
struct no_type
{
    char padding[8];
};

template <bool B, class T = void>
struct enable_if_c {
    typedef T type;
};

template <class T>
struct enable_if_c<false, T> {};

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {};

template <class Cond, class T = void>
struct disable_if : public enable_if_c<!Cond::value, T> {};

template <bool B, class T = void>
struct disable_if_c : public enable_if_c<!B, T> {};

template <class T, class U>
class is_convertible
{
    typedef char true_t;
    class false_t { char dummy[2]; };
    static true_t dispatch(U);
    static false_t dispatch(...);
    static T trigger();
    public:
        enum { value = sizeof(dispatch(trigger())) == sizeof(true_t) };
};

template<
    bool C,
    typename T1,
    typename T2
>
struct if_c
{
    typedef T1 type;
};

template<
    typename T1,
    typename T2
struct if_c<false, T1, T2>
{
    typedef T2 type;
};

template<
    typename T1,
    typename T2,
    typename T3
>
struct if_
{
    typedef typename if_c<0 != T1::value, T2, T3>::type type;
};

template<class Pair>
struct select1st
//    : public std::unary_function<Pair, typename Pair::first_type>
{
    template<class OtherPair>
    const typename Pair::first_type& operator()(const OtherPair& x) const
    { return x.first;   }

    const typename Pair::first_type& operator()(const typename Pair::first_type& x) const
    { return x;   }
};

// identity is an extension: it is not part of the standard.
template<class T>
struct identity
//    : public std::unary_function<T, T>
{
    typedef T type;
    const T& operator()(const T& x) const
    { return x;   }
};

template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<S >> 1u>::value);
};

template<>
struct ls_zeros<0>
{

static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
    static const std::size_t value = 0;
};

template <typename T> struct unvoid { typedef T type; }

template <> struct unvoid<void> { struct type { }; }

template <> struct unvoid<const void> { struct type { }; }

} //namespace container_detail
} //namespace container
} //namespace boost

#endif   //#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

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1.108 boost-timer 1.53.0 :27.el7
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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM.

Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dossor (dossier@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dossor provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(agic@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.uchicago.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groutcho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn’t
made it into the released version of the collector, yet.)
This package was debianized by Vladimir Prus <ghost@cs.msu.su> on

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Received: from mail.bridge.intra ([127.0.0.1])
    by localhost (lnx.bridge.intra [127.0.0.1]) (amavisd-new, port 10024)
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    Wed,  1 Mar 2006 20:30:42 +0100 (CET)
Received: from pop.gmx.net (localhost [127.0.0.1])
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X-Flags: 0000
you may include it directly
retain the testregex.c header comment
it uses a very free license to maximize distribution
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using # comment style to be complete

let me know how it works with your libc
also pass on any new tests you cook up

On Wed, 1 Mar 2006 20:15:02 +0100 (CET) Peter S. Mazinger wrote:
> Hello Glenn!

> I would want to add testregex.c and the related *.dat files to the uClibc
testsuite. uClibc is licensed under LGPL v2.1. I haven't found any
licensing related info on testregex.

> Is it allowed to use the code there, or should I accomodate the testsuite
to download the needed files from the original site each time it is ran?

Thanks, Peter

--

Peter S. Mazinger <ps dot m at gmx dot net>       ID: 0xA5F059F2
Key fingerprint = 92A4 31E1 56BC 3D5A 2D08  BB6E C389 975E A5F0 59F2

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Julian Seward, Cambridge, UK.
jseward@bzip.org
bzip2/libbzip2 version 1.0.4 of 20 December 2006

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1.116 bzip2-devel 1.0.6 :13.el7

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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Version 1.1

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1.126 cairo/cairo-trace-gplv3-part 1.14.2

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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murmurhashneutral2.[hc]

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snprintf.c and m4/snprintf.m4

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zlib/*.hc
~~~~~~~~~~

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Jean-loup Gailly        Mark Adler
jloup@gzip.org          madler@alumni.caltech.edu
span.purple { color: purple; }
span.red { color: red; }
span.silver { color: silver; }
span.teal { color: teal; }
span.white { color: white; }
span.yellow { color: yellow; }

span.aqua-background { background: aqua; }
span.black-background { background: black; }
span.blue-background { background: blue; }
span.fuchsia-background { background: fuchsia; }
span.gray-background { background: gray; }
span.green-background { background: green; }
span.lime-background { background: lime; }
span.maroon-background { background: maroon; }
span.navy-background { background: navy; }
span.olive-background { background: olive; }
span.purple-background { background: purple; }
span.red-background { background: red; }
span.silver-background { background: silver; }
span.teal-background { background: teal; }
span.white-background { background: white; }
span.yellow-background { background: yellow; }

span.big { font-size: 2em; }
span.small { font-size: 0.6em; }

span.underline { text-decoration: underline; }
span.overline { text-decoration: overline; }
span.line-through { text-decoration: line-through; }

div.unbreakable { page-break-inside: avoid; }

/*
 * xhtml11 specific
 *
 */

div.tableblock {
    margin-top: 1.0em;
    margin-bottom: 1.5em;
}
div.tableblock > table {
    border: 3px solid #527bbd;
}
thead, p.table.header {
    font-weight: bold;
color: #527bbd;
}
p.table {
  margin-top: 0;
}
/* Because the table frame attribute is overridden by CSS in most browsers. */
div.tableblock > table[frame="void"] {
  border-style: none;
}
div.tableblock > table[frame="hsides"] {
  border-left-style: none;
  border-right-style: none;
}
div.tableblock > table[frame="vsides"] {
  border-top-style: none;
  border-bottom-style: none;
}

/*
 * html5 specific
 *
 */
table.tableblock {
  margin-top: 1.0em;
  margin-bottom: 1.5em;
}
thead, p.tableblock.header {
  font-weight: bold;
  color: #527bbd;
}
p.tableblock {
  margin-top: 0;
}
table.tableblock {
  border-width: 3px;
  border-spacing: 0px;
  border-style: solid;
  border-color: #527bbd;
  border-collapse: collapse;
}
th.tableblock, td.tableblock {
  border-width: 1px;
  padding: 4px;
  border-style: solid;
  border-color: #527bbd;
}
/* Author: Mihai Bazon, September 2002
 * http://students.infoiasi.ro/~mishoo
 * 
 * Table Of Content generator
 * Version: 0.4
 * 
 * Feel free to use this script under the terms of the GNU General Public
 * License, as long as you do not remove or alter this notice.
 */

/* modified by Troy D. Hanson, September 2006. License: GPL */

// tocllevels = 1..4.
toc: function (toclevels) {

function getText(el) {
    var text = "";
    for (var i = el.firstChild; i != null; i = i.nextSibling) {
        if (i.nodeType == 3 /* Node.TEXT_NODE */) // IE doesn't speak constants.
            text += i.data;
        else if (i.firstChild != null)
            text += getText(i);
    }
    return text;
}

function TocEntry(el, text, toclevel) {
    this.element = el;
    this.text = text;
function tocEntries(el, toclevels) {
    var result = new Array;
    var re = new RegExp('[hH](\[1-'+(toclevels+1)+'\]+)');
    // Function that scans the DOM tree for header elements (the DOM2
    // nodeIterator API would be a better technique but not supported by all
    // browsers).
    var iterate = function (el) {
        for (var i = el.firstChild; i != null; i = i.nextSibling) {
            if (i.nodeType == 1 /* Node.ELEMENT_NODE */) {
                var mo = re.exec(i.tagName);
                if (mo && (i.getAttribute("class") || i.getAttribute("className")) != "float") {
                    result[result.length] = new TocEntry(i, getText(i), mo[1]-1);
                }
                iterate(i);
            }
        }
    }
    iterate(el);
    return result;
}

var toc = document.getElementById("toc");
if (!toc) {
    return;
}

// Delete existing TOC entries in case we're reloading the TOC.
var tocEntriesToRemove = [];
var i;
for (i = 0; i < toc.childNodes.length; i++) {
    var entry = toc.childNodes[i];
    if (entry.nodeName.toLowerCase() == 'div'
        && entry.getAttribute("class")
        && entry.getAttribute("className").match(/\^toclevel\/))
        tocEntriesToRemove.push(entry);
}
for (i = 0; i < tocEntriesToRemove.length; i++) {
    toc.removeChild(tocEntriesToRemove[i]);
}

// Rebuild TOC entries.
var entries = tocEntries(document.getElementById("content"), toclevels);
for (var i = 0; i < entries.length; ++i) {
    var entry = entries[i];
    if (entry.element.id == "")
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entry.element.id = "_toc_" + i;
var a = document.createElement("a");
a.href = "#" + entry.element.id;
a.appendChild(document.createTextNode(entry.text));
var div = document.createElement("div");
div.appendChild(a);
div.className = "toclevel" + entry.toclevel;
toc.appendChild(div);
}
if (entries.length == 0)
toc.parentNode.removeChild(toc);
}

/////////////////////////////////////////////////////////////////////
// Footnotes generator
/////////////////////////////////////////////////////////////////////
/* Based on footnote generation code from:
* http://www.brandspankingnew.net/archive/2005/07/format_footnote.html
*/

footnotes: function () {
// Delete existing footnote entries in case we're reloading the footnotes.
var i;
var noteholder = document.getElementById("footnotes");
if (!noteholder) {
    return;
}
var entriesToRemove = [];
for (i = 0; i < noteholder.childNodes.length; i++) {
    var entry = noteholder.childNodes[i];
    if (entry.nodeName.toLowerCase() == 'div' && entry.getAttribute("class") == "footnote")
        entriesToRemove.push(entry);
}
for (i = 0; i < entriesToRemove.length; i++) {
    noteholder.removeChild(entriesToRemove[i]);
}

// Rebuild footnote entries.
var cont = document.getElementById("content");
var spans = cont.getElementsByTagName("span");
var refs = {};
var n = 0;
for (i=0; i<spans.length; i++) {
    if (spans[i].className == "footnote") {
        n++;
        var note = spans[i].getAttribute("data-note");
        ...
if (!note) {
    // Use [\s\S] in place of . so multi-line matches work.
    // Because JavaScript has no s (dotall) regex flag.
    note = spans[i].innerHTML.match(/\s*\[(\[\s\S]*\]\s*)\[\1\]\s*/)[1];
    spans[i].innerHTML =
        "[<a id='_footnoteref_' + n + " href='#_footnote_' + n + " title='View footnote' class='footnote'">" + n + "</a>]";
    spans[i].setAttribute("data-note", note);
}

noteholder.innerHTML +=
    "<div class='footnote' id='_footnote_' + n + ">
" +
    "<a href='#_footnoteref_' + n + " title='Return to text'>" +
    n + "</a> " + note + "</div>";
var id = spans[i].getAttribute("id");
if (id != null) refs["#"+id] = n;
}
}

if (n == 0)
    noteholder.parentNode.removeChild(noteholder);
else {
    // Process footnoterefs.
    for (i=0; i<spans.length; i++) {
        if (spans[i].className == "footnoteref") {
            var href = spans[i].getElementsByTagName("a")[0].getAttribute("href");
            href = href.match(/#.*/)[0];  // Because IE return full URL.
            n = refs[href];
            spans[i].innerHTML =
                "[<a href='#_footnote_' + n + " title='View footnote' class='footnote'">" + n + "</a>]";
        }
    }    
    
},

install: function(toclevels) {
    var timerId;

    function reinstall() {
        asciidoc.footnotes();
        if (toclevels) {
            asciidoc.toc(toclevels);
        }
    }

    function reinstallAndRemoveTimer() {
        clearInterval(timerId);
        reinstall();
    }
}
timerId = setInterval(reinstall, 500);
if (document.addEventListener)
    document.addEventListener("DOMContentLoaded", reinstallAndRemoveTimer, false);
else
    window.onload = reinstallAndRemoveTimer;
}

asciidoc.install(2);
/*]]>*/
</script>
</head>
<body class="article">
<div id="header">
<h1>ccache copyright and license</h1>
<span id="revnumber">version 3.3.4</span>
<div id="toc">
<div id="toctitle">Table of Contents</div>
<noscript><p><b>JavaScript must be enabled in your browser to display the table of contents.</b></p></noscript>
</div>
</div>
<div id="content">
<div class="sect1">
<h2 id="_overall_license">Overall license</h2>
<div class="sectionbody">
<div class="paragraph"><p>The license for ccache as a whole is as follows:</p></div>
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</body>
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A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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Thanks to the many outside volunteers who have worked under Guido’s direction to make these releases possible.

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## Special Recognition ##

One of the key reasons we got delayed on the CentOS-6 release was lack of suitable build resources, especially when we had to repeatedly build large chunks of code. Norwood S came forward and worked with me to setup a large build machine, then tune the build process and help improve the overall build, test and validate process we were using. This build machine he donated to the project was about 5 times more capable than the entire buildsystem we had. And he did this out of his own pocket, from his own time, and has since upgraded the machine as well. It's now a 128GB, 48 core machine, with 4 SSD's and 4 sata disks : but the key metric is that it can build from source, the entire CentOS-7 distro in under 22 hrs.

Having this capability was key in our ability to build, test and deliver
CentOS-7 as rapidly as we have been able to.

We'd like to dedicate the CentOS-7 Release to Mr Norwood S, of Phoenix, AZ, USA for his continued support for the project.

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The Red Hat developers, without whom CentOS would look very different

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## Special Recognition ##

One of the key reasons we got delayed on the CentOS-6 release was lack of suitable build resources, especially when we had to repeatedly build large chunks of code. Norwood S came forward and worked with me to setup a large build machine, then tune the build process and help improve the overall build, test and validate process we were using. This build machine he donated to the project was about 5 times more capable than the entire buildsystem we had. And he did this out of his own pocket, from his own time, and has since upgraded the machine as well. It's now a 128GB, 48 core machine, with 4 SSD's and 4 sata disks : but the key metric is that it can build from source, the entire CentOS-7 distro in under 22 hrs.

Having this capability was key in our ability to build, test and deliver CentOS-7 as rapidly as we have been able to.

We'd like to dedicate the CentOS-7 Release to Mr Norwood S, of Phoenix, AZ, USA for his continued support for the project.

Contributors:
The Red Hat developers, without whom CentOS would look very different
1.133 centos-release-paas-common 1 :1.el7.centos

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@(#) SRCSfile: certdata.txt,v $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $

1.136 cffi 1.11.5
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1.137 chardet 3.0.4

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1.142 clang 6.0.1-1

1.143 cloog-ppl 0.15.7 :1.2.el6
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Version 2, June 1991

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Go support for Protocol Buffers - Google's data interchange format

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https://github.com/golang/protobuf

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Portions of the client are based on code at:
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1.167 cpp 4.8.5-36

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
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compelled to copy the source along with the object code.

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Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
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work. (Executables containing this object code plus portions of the
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Version 2.1, February 1999

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conveying of source, or (2) access to copy the
Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the
written offer to provide the Corresponding Source. This
alternative is allowed only occasionally and noncommercially, and
only if you received the object code with such an offer, in accord
with subsection 6b.

d) Convey the object code by offering access from a designated
place (gratis or for a charge), and offer equivalent access to the
Corresponding Source in the same way through the same place at no
further charge. You need not require recipients to copy the
Corresponding Source along with the object code. If the place to
copy the object code is a network server, the Corresponding Source
may be on a different server (operated by you or a third party)
that supports equivalent copying facilities, provided you maintain
clear directions next to the object code saying where to find the
Corresponding Source. Regardless of what server hosts the
Corresponding Source, you remain obligated to ensure that it is
available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided
you inform other peers where the object code and Corresponding
Source of the work are being offered to the general public at no
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A separable portion of the object code, whose source code is excluded
from the Corresponding Source as a System Library, need not be
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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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Version 3.1, 31 March 2009

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------- --------
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 adapted to BSD conventions for symbol names and debugging.)
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/* Use the Sequent Symmetry assembler syntax. */

/* Define the syntax of pseudo-ops, labels and comments. */

/* Prefix for internally generated assembler labels. If we aren't using
underscores, we are using prefix "."'s to identify labels that should
be ignored, as in `i386/gas.h' --karl@cs.umb.edu */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size. */

#define ASM_BYTE "\t.byte\t"
#define ASM_SHORT "\t.word\t"
#define ASM_LONG "\t.long\t"
#define ASM_QUAD "\t.quad\t" /* Should not be used for 32bit compilation. */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS
#define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */

/* Define the syntax of labels and symbol definitions/declarations. */

/* This is how to output an assembler line
that says to advance the location counter by SIZE bytes. */

#define ASM_OUTPUT_SKIP(FILE, SIZE)  
fprintf (FILE, "\t.space "HOST_WIDE_INT_PRINT_UNSIGNED"\n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations. */

/* This says how to output an assembler line
to define a global common symbol. */

#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED)  
( fputs (".comm ", (FILE)),
 assemble_name ((FILE), (NAME)),
 fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

/* This says how to output an assembler line
to define a local common symbol. */

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED)  
( fputs (".lcomm ", (FILE)),
 assemble_name ((FILE), (NAME)),
 fprintf ((FILE), ",%u\n", (int)(ROUNDED)))
ifdef HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT) \    (fputs(".lcomm ", (FILE)),\    assemble_name((FILE), (NAME)),\    fprintf((FILE), ",%u,%u\n", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* This is how to output an assembler line that says to advance the location counter to a multiple of 2**LOG bytes. */

#define ASM_OUTPUT_ALIGN(FILE,LOG)\    if ((LOG)!=0) fprintf ((FILE), "\t.align %d\n", (LOG))

/* This is how to store into the string BUF the symbol_ref name of an internal numbered label where PREFIX is the class of label and NUM is the number within the class. This is suitable for output with `assemble_name'. */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER)\    sprintf ((BUF), "\*%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols. */

#define USER_LABEL_PREFIX "_"

/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0

ignore
@c Set file name and title for man page.
@setfilename gfdl
@settitle GNU Free Documentation License
@c man begin SEEALSO
gpl(7), fsf-funding(7).
@c man end
@c man begin COPYRIGHT
@uref{http://fsf.org/}

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@end enumerate

@end enumerate

@end enumerate

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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the `copyright` line and a pointer to where the full notice is found.

@example
@var{one line to give the program's name and a brief idea of what it does.}
Copyright (C) @var{year} @var{name of author}
@end example

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@end example

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

@example
@var{program} Copyright (C) @var{year} @var{name of author}
This program comes with ABSOLUTELY NO WARRANTY; for details type @samp{show w}. This is free software, and you are welcome to redistribute it under certain conditions; type @samp{show c} for details.
@end example

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@c man end
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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the
garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood.

Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchochmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Jansen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(age@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn’t made it into the released version of the collector, yet.)

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#!/usr/bin/python
#
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#
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# the Free Software Foundation; either version 3, or (at your option) 
# any later version.

# This script adjusts the copyright notices at the top of source files 
# so that they have the form:
#
#   Copyright XXXX-YYYY Free Software Foundation, Inc.
#
# It doesn't change code that is known to be maintained elsewhere or 
# that carries a non-FSF copyright.
#
# The script also doesn't change testsuite files, except those in 
# libstdc++-v3. This is because libstdc++-v3 has a conformance testsuite, 
# while most tests in other directories are just things that failed at some 
# point in the past.
#
# Pass --this-year to the script if you want it to add the current year 
# to all applicable notices. Pass --quilt if you are using quilt and 
# want files to be added to the quilt before being changed.
#
# By default the script will update all directories for which the 
# output has been vetted. You can instead pass the names of individual 
# directories, including those that haven't been approved. So:
import os
import re
import sys
import time
import subprocess

class Errors:
    def __init__(self):
        self.num_errors = 0

    def report(self, filename, string):
        if filename:
            string = filename + ': ' + string
        sys.stderr.write(string + '
')
        self.num_errors += 1

    def ok(self):
        return self.num_errors == 0

class GenericFilter:
    def __init__(self):
        self.skip_files = set()
        self.skip_dirs = set()
        self.skip_extensions = set()
        self.fossilised_files = set()
        self.own_files = set()

        self.skip_files |= set(['
            # Skip licence files.
            'COPYING',
            'COPYING.LIB',
            'COPYING3',
            'COPYING3.LIB',
            'LICENSE',
        ''])
def get_line_filter (self, dir, filename):
    if filename.startswith ('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile ('\t')
    return None

def skip_file (self, dir, filename):
    if filename in self.skip_files:
        return True
    (base, extension) = os.path.splitext (os.path.join (dir, filename))
if extension in self.skip_extensions:
    return True

if extension == '.in':
    # Skip .in files produced by automake.
    if os.path.exists (base + '.am'):
        return True

    # Skip files produced by autogen
    if (os.path.exists (base + '.def')
        and os.path.exists (base + '.tpl')):
        return True

    # Skip configure files produced by autoconf
    if filename == 'configure':
        if os.path.exists (base + '.ac'):
            return True
        if os.path.exists (base + '.in'):
            return True

    return False

def skip_dir (self, dir, subdir):
    return subdir in self.skip_dirs

def is_fossilised_file (self, dir, filename):
    if filename in self.fossilised_files:
        return True

    # Only touch current ChangeLogs.
    if filename != 'ChangeLog' and filename.find ('ChangeLog') >= 0:
        return True
    return False

def by_package_author (self, dir, filename):
    return filename in self.own_files

class Copyright:
    def __init__ (self, errors):
        self.errors = errors

        # Characters in a range of years. Include '.' for typos.
        ranges = '[0-9-][?[-0-9.\s]\s+\sand\s]*[0-9-]'

        # Non-whitespace characters in a copyright holder's name.
        name = '\w...']

        # Matches one year.
        self.year_re = re.compile ('[0-9-]+')
# Matches part of a year or copyright holder.
self.continuation_re = re.compile (ranges + '|' + name)

# Matches a full copyright notice:
self.copyright_re = re.compile (
     # 1: 'Copyright (C)', etc.
     '(\[Cc\]opyright\s+\(\[Cc\]\))?\n     \[[Cc]\]opyright\s+\(\[Cc\]\)?\n     \[[Cc]\]opyright\s+\%s\n     \[[Cc]\]opyright\s+\&copy;\n     \[[Cc]\]opyright\s+@copyright{}\n     \[@set\s+copyright\[w-\]+\]
     # 2: the years. Include the whitespace in the year, so that
     # we can remove any excess.
     '\s*%s\(\?:\s?\) + ranges +\.',?\n     '@value\{[^\[]*[\}\}\]\s*\')

# 3: 'by ', if used
'(by\s+)\?'

# 4: the copyright holder. Don't allow multiple consecutive
# spaces, so that right-margin gloss doesn't get caught
# (e.g. gnat_ugn.texi).
'(\s? + name + '(?\s? + name + '+\))*\?'

# A regexp for notices that might have slipped by. Just matching
# 'copyright' is too noisy, and 'copyright.*[0-9]' falls foul of
# HTML header markers, so check for 'copyright' and two digits.
self.other_copyright_re = re.compile ('copyright.*[0-9][0-9]',
     re.IGNORECASE)

self.comment_re = re.compile('#+|[*]+|;+|%+|//+|@c |dnl ')

self.holders = { '@copying': '@copying' }
self.holder_prefixes = set()

# True to 'quilt add' files before changing them.
self.use_quilt = False

# If set, force all notices to include this year.
self.max_year = None

# Goes after the year(s). Could be ',', '.
self.separator = ','

def add_package_author (self, holder, canon_form = None):
    if not canon_form:
        canon_form = holder
self.holders[holder] = canon_form
index = holder.find (' ')
while index >= 0:
    self.holder_prefixes.add (holder[:index])
    index = holder.find (' ', index + 1)

def add_external_author (self, holder):
    self.holders[holder] = None

class BadYear():
    def __init__ (self, year):
        self.year = year

    def __str__ (self):
        return 'unrecognised year: ' + self.year

def parse_year (self, string):
    year = int (string)
    if len (string) == 2:
        if year > 70:
            return year + 1900
    elif len (string) == 4:
        return year
    raise self.BadYear (string)

def year_range (self, years):
    year_list = [self.parse_year (year)
                for year in self.year_re.findall (years)]
    assert len (year_list) > 0
    return (min (year_list), max (year_list))

def set_use_quilt (self, use_quilt):
    self.use_quilt = use_quilt

def include_year (self, year):
    assert not self.max_year
    self.max_year = year

def canonicalise_years (self, dir, filename, filter, years):
    # Leave texinfo variables alone.
    if years.startswith ('@value '):
        return years
    (min_year, max_year) = self.year_range (years)

    # Update the upper bound, if enabled.
    if self.max_year and not filter.is_fossilised_file (dir, filename):
        max_year = max (max_year, self.max_year)
# Use a range.
if min_year == max_year:
    return '%d' % min_year
else:
    return '%d-%d' % (min_year, max_year)

def strip_continuation(self, line):
    line = line.lstrip()
    match = self.comment_re.match(line)
    if match:
        line = line[match.end()::].lstrip()
    return line

def is_complete(self, match):
    holder = match.group(4)
    return (holder
        and (holder not in self.holder_prefixes
            or holder in self.holders))

def update_copyright(self, dir, filename, filter, file, line, match):
    orig_line = line
    next_line = None
    pathname = os.path.join(dir, filename)

    intro = match.group(1)
    if intro.startswith('@set'):
        # Texinfo year variables should always be on one line
        after_years = line[match.end(2)::].strip()
        if after_years != ':
            self.errors.report(pathname,
                'trailing characters in @set: '
                + after_years)
            return (False, orig_line, next_line)
        else:
            # If it looks like the copyright is incomplete, add the next line.
            while not self.is_complete(match):
                try:
                    next_line = file.next()
                except StopIteration:
                    break
            # If the next line doesn't look like a proper continuation,
            # assume that what we've got is complete.
            continuation = self.strip_continuation(next_line)
            if not self.continuation_re.match(continuation):
                break

    else:
        # If it looks like the copyright is incomplete, add the next line.
        while not self.is_complete(match):
            try:
                next_line = file.next()
            except StopIteration:
                break
            # If the next line doesn't look like a proper continuation,
            # assume that what we've got is complete.
            continuation = self.strip_continuation(next_line)
            if not self.continuation_re.match(continuation):
                break
# Merge the lines for matching purposes.
orig_line += next_line
line = line.rstrip() + ' ' + continuation
next_line = None

# Rematch with the longer line, at the original position.
match = self.copyright_re.match (line, match.start())
assert match

holder = match.group (4)

# Use the filter to test cases where markup is getting in the way.
if filter.by_package_author (dir, filename):
    assert holder not in self.holders

elif not holder:
    self.errors.report (pathname, 'missing copyright holder')
    return (False, orig_line, next_line)

elif holder not in self.holders:
    self.errors.report (pathname, 'unrecognised copyright holder: ' + holder)
    return (False, orig_line, next_line)

else:
    # See whether the copyright is associated with the package
    # author.
    canon_form = self.holders[holder]
    if not canon_form:
        return (False, orig_line, next_line)

    # Make sure the author is given in a consistent way.
    line = (line[:match.start (4)]
            + canon_form
            + line[match.end (4):])

    # Remove any 'by'
    line = line[:match.start (3)] + line[match.end (3):]

    # Update the copyright years.
    years = match.group (2).strip()
    try:
        canon_form = self.canonicalise_years (dir, filename, filter, years)
    except self.BadYear as e:
        self.errors.report (pathname, str (e))
    return (False, orig_line, next_line)

    line = (line[:match.start (2)]
+ ' ' + canon_form + self.separator
+ line[match.end (2):]

# Use the standard (C) form.
if intro.endswith ('right'):
    intro += ' (C)'
elif intro.endswith ('(c)'):
    intro = intro[:-3] + '(C)'
line = line[:match.start (1)] + intro + line[match.end (1):]

# Strip trailing whitespace
line = line.rstrip() + '\n'

return (line != orig_line, line, next_line)

def process_file (self, dir, filename, filter):
    pathname = os.path.join (dir, filename)
    if filename.endswith ('.tmp'):
        # Looks like something we tried to create before.
        try:
            os.remove (pathname)
        except OSError:
            pass
        return
    lines = []
    changed = False
    line_filter = filter.get_line_filter (dir, filename)
    with open (pathname, 'r') as file:
        prev = None
        for line in file:
            while line:
                next_line = None
                # Leave filtered-out lines alone.
                if not (line_filter and line_filter.match (line)):
                    match = self.copyright_re.search (line)
                    if match:
                        res = self.update_copyright (dir, filename, filter,
                                                     file, line, match)
                        (this_changed, line, next_line) = res
                        changed = changed or this_changed

                    # Check for copyright lines that might have slipped by.
                    elif self.other_copyright_re.search (line):
                        self.errors.report (pathname,
                                            'unrecognised copyright: %s'
                                            % line.strip())
                        lines.append (line)

                # Leave filtered-out lines alone.
                if not (line_filter and line_filter.match (line)):
                    match = self.copyright_re.search (line)
                    if match:
                        res = self.update_copyright (dir, filename, filter,
                                                     file, line, match)
                        (this_changed, line, next_line) = res
                        changed = changed or this_changed

                    # Check for copyright lines that might have slipped by.
                    elif self.other_copyright_re.search (line):
                        self.errors.report (pathname,
                                            'unrecognised copyright: %s'
                                            % line.strip())
                        lines.append (line)
line = next_line

# If something changed, write the new file out.
if changed and self.errors.ok():
    tmp_pathname = pathname + '.tmp'
    with open (tmp_pathname, 'w') as file:
        for line in lines:
            file.write (line)
    if self.use_quilt:
        subprocess.call (["quilt", 'add', pathname])
    os.rename (tmp_pathname, pathname)

def process_tree (self, tree, filter):
    for (dir, subdirs, filenames) in os.walk (tree):
        # Don't recurse through directories that should be skipped.
        for i in xrange (len (subdirs) - 1, -1, -1):
            if filter.skip_dir (dir, subdirs[i]):
                del subdirs[i]

        # Handle the files in this directory.
        for filename in filenames:
            if filter.skip_file (dir, filename):
                sys.stdout.write ('Skipping %s
' % os.path.join (dir, filename))
            else:
                self.process_file (dir, filename, filter)

class CmdLine:
    def __init__ (self, copyright = Copyright):
        self.errors = Errors()
        self.copyright = copyright (self.errors)
        self.dirs = []
        self.default_dirs = []
        self.chosen_dirs = []
        self.option_handlers = dict()
        self.option_help = []
        self.add_option ('--help', 'Print this help', self.o_help)
        self.add_option ('--quilt', '"quilt add" files before changing them',
                        self.o_quilt)
        self.add_option ('--this-year', 'Add the current year to every notice',
                        self.o_this_year)

    def add_option (self, name, help, handler):
        self.option_help.append ((name, help))
        self.option_handlers[name] = handler

    def add_dir (self, dir, filter = GenericFilter()):
self dirs.append ((dir, filter))

def o_help (self, option = None):
    sys.stdout.write ('Usage: %s [options] dir1 dir2...

    Options:
' % sys.argv[0])
    format = '%-15s %s
'
    for (what, help) in self.option_help:
        sys.stdout.write (format % (what, help))
    sys.stdout.write ('
Directories:
')
    format = '%-25s
'
    i = 0
    for (dir, filter) in self.dirs:
        i += 1
        if i % 3 == 0 or i == len (self.dirs):
            sys.stdout.write (dir + '
')
        else:
            sys.stdout.write (format % dir)
    sys.exit (0)

def o_quilt (self, option):
    self.copyright.set_use_quilt (True)

def o_this_year (self, option):
    self.copyright.include_year (time.localtime().tm_year)

def main (self):
    for arg in sys.argv[1:]:
        if arg[:1] != '-':
            self.chosen_dirs.append (arg)
        elif arg in self.option_handlers:
            self.option_handlers[arg] (arg)
        else:
            self.errors.report (None, 'unrecognised option: ' + arg)
    if self.errors.ok():
        if len (self.chosen_dirs) == 0:
            self.chosen_dirs = self.default_dirs
        if len (self.chosen_dirs) == 0:
            self.o_help()
        else:
            for chosen_dir in self.chosen_dirs:
                canon_dir = os.path.join (chosen_dir, '')
                count = 0
                for (dir, filter) in self.dirs:
                    if (dir + os.sep).startswith (canon_dir):
                        count += 1
                        self.copyright.process_tree (dir, filter)
                if count == 0:
self.errors.report (None, 'unrecognised directory: ' + chosen_dir)
sys.exit (0 if self.errors.ok() else 1)

#----------------------------------------------------------------------
class TopLevelFilter (GenericFilter):
def skip_dir (self, dir, subdir):
    return True
class ConfigFilter (GenericFilter):
def __init__ (self):
    GenericFilter.__init__ (self)
def skip_file (self, dir, filename):
    if filename.endswith ('.m4'):
        pathname = os.path.join (dir, filename)
        with open (pathname) as file:
            # Skip files imported from gettext.
            if file.readline().find ('gettext-') >= 0:
                return True
        return GenericFilter.skip_file (self, dir, filename)
class GCCFilter (GenericFilter):
def __init__ (self):
    GenericFilter.__init__ (self)
    self.skip_files |= set (
        # Not part of GCC
        'math-68881.h',
    )
    self.skip_dirs |= set (
        # Better not create a merge nightmare for the GNAT folks.
        'ada',
        # Handled separately.
        'testsuite',
    )
    self.skip_extensions |= set (
        # Maintained by the translation project.
        '.po',
        # Automatically-generated.
        '.pot',
    )
def skip_file(self, dir, filename):
    # g++.niklas/README contains historical copyright information
    # and isn’t updated.
    if filename == ‘README’ and os.path.basename(dir) == ‘g++.niklas’:
        return True
    return GenericFilter.skip_file(self, dir, filename)

class LibCppFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_extensions = set([
            # Maintained by the translation project.
            ‘.po’,

            # Automatically-generated.
            ‘.pot’,
        ])

class LibGCCFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_dirs = set([
            # Imported from GLIBC.
        ])

self.fossilised_files = set([
    # Old news won’t be updated.
    ‘ONEWS’,
])

class TestsuiteFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_extensions = set([
            # Don’t change the tests, which could be woend by anyone.
            ‘.c’,
            ‘.C’,
            ‘.cc’,
            ‘.h’,
            ‘.hs’,
            ‘.f’,
            ‘.f90’,
            ‘.go’,
            ‘.inc’,
            ‘.java’,
        ])
class LibJavaFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set (
            # Handled separately.
            'testsuite',

            # Not really part of the library
            'contrib',

            # Imported from upstream
            'classpath',
            'libltdl',
        )

    def get_line_filter (self, dir, filename):
        if filename == 'NameDecoder.h':
            return re.compile ('.*NAME_COPYRIGHT')
        if filename == 'ICC_Profile.h':
            return re.compile ('.*icSigCopyrightTag')
        return GenericFilter.get_line_filter (self, dir, filename)

class LibMudflapFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set (
            # Handled separately.
            'testsuite',
        )

class LibStdCxxFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_files |= set (
            # Contains no copyright of its own, but quotes the GPL.
            'intro.xml',
        )

        self.skip_dirs |= set (
            # Contains automatically-generated sources.
            'html',
        )
# The testsuite data files shouldn't be changed.
'data',

# Contains imported images
'images',
]

self.own_files |= set ([
    # Contains markup around the copyright owner.
    'spine.xml',
    ])

def get_line_filter (self, dir, filename):
    if filename == 'boost_concept_check.h':
        return re.compile ('// (C) Copyright Jeremy Siek')
    return GenericFilter.get_line_filter (self, dir, filename)

class GCCCopyright (Copyright):
    def __init__ (self, errors):
        Copyright.__init__ (self, errors)
        canon_fsf = 'Free Software Foundation, Inc.'
        self.add_package_author ('Free Software Foundation', canon_fsf)
        self.add_package_author ('Free Software Foundation.', canon_fsf)
        self.add_package_author ('Free Software Foundation Inc.', canon_fsf)
        self.add_package_author ('Free Software Foundation, Inc', canon_fsf)
        self.add_package_author ('Free Software Foundation, Inc.', canon_fsf)
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        self.add_external_author ('Silicon Graphics Computer Systems, Inc.')
class GCCCmdLine (CmdLine):
    def __init__ (self):
        CmdLine.__init__ (self, GCCCopyright)

        self.add_dir ('.', TopLevelFilter())
        # boehm-gc is imported from upstream.
        self.add_dir ('config', ConfigFilter())
        # contrib isn't really part of GCC.
        self.add_dir ('gnatools')
        self.add_dir ('include')
        self.add_dir ('libatomic')
        self.add_dir ('libbacktrace')
        self.add_dir ('libcpp', LibCppFilter())
        self.add_dir ('libdecnumber')
        # libffi is imported from upstream.
        self.add_dir ('libgcc', LibGCCFilter())
        self.add_dir ('libgfortran')
        self.add_dir ('libiberty')
        self.add_dir ('libitm')
        self.add_dir ('libjava', LibJavaFilter())
        self.add_dir ('libmudflap', LibMudflapFilter())
        self.add_dir ('libobjc')
        self.add_dir ('libquadmath')
        # libsanitiser is imported from upstream.
        self.add_dir ('libssp')
        self.add_dir ('libstdc++-v3', LibStdCxxFilter())
        self.add_dir ('lto-plugin')
        # zlib is imported from upstream.

        self.default_dirs = [

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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with
We call this license the \texttt{Lesser} General Public License because it does \texttt{Less} to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A ``library'' means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The ``Library'', below, refers to any such software library or work which has been distributed under these terms. A ``work based on the Library'' means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term ``modification''.)

``Source code'' for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of
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You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

@item
A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

As an exception to the Sections above, you may also combine or
link a ``work that uses the Library'' with the Library to produce a
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Accompany the work with the complete corresponding
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changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
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uses the Library'', as object code and/or source code, so that the
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to use the modified definitions.)
Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the ``work that uses the Library'' must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

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@example
@example
@example
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@example
@example
@example
@example
@example
@end

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You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

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These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in
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Therefore, when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
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whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
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directing the user to the copy of this License. Also, you must do one
of these things:

a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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* m4/ax_func_which_gethostbyname_r.m4

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import java.util.Map;

import com.sun.tools.doclets.Taglet;

import com.sun.javadoc.Tag;

/**
 * A simple Taglet which handles Copyright information.
 */
public class CopyrightTaglet implements Taglet {

    private static final String NAME = "copyright";
    private static final String HEADER = "Copyright:"

    public String getName() {
        return NAME;
    }

    public boolean inField() {
        return true;
    }

    public boolean inConstructor() {
        return true;
    }

    public boolean inMethod() {
        return true;
    }

}
public boolean inOverview() {
return true;
}
public boolean inPackage() {
return true;
}
public boolean inType() {
return true;
}
public boolean isInlineTag() {
return false;
}
public static void register(Map tagletMap) {
CopyrightTaglet copyrightTaglet = new CopyrightTaglet();
tagletMap.put(copyrightTaglet.getName(), copyrightTaglet);
}
public String toString(Tag tag) {
return toString(new Tag[] { tag });
}
public String toString(Tag[] tags) {
if (tags.length == 0) {
return null;
}
else {
boolean haveValidTag = false;
for (int i = 0; i < tags.length && !haveValidTag; ++i) {
if (tags[i].text().length() > 0) {
haveValidTag = true;
}
}
if (haveValidTag) {
StringBuffer result = new StringBuffer();
result.append("<dl>");
for (int i = 0; i < tags.length; i++) {
if (tags[i].text().length() > 0) {
result.append("<dt><i>Copyright &#169; " + tags[i].text() + "</i></dt>");
}
}
result.append("</dl>");
return result.toString();
}

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else {
    return null;
}
*/

/* Permission.java -- The superclass for all permission objects

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package java.security;

import gnu.java.lang.CPStringBuilder;

import java.io.Serializable;
/**
 * This class is the abstract superclass of all classes that implement
 * the concept of a permission. A permission consists of a permission name
 * and optionally a list of actions that relate to the permission. The
 * actual meaning of the name of the permission is defined only in the
 * context of a subclass. It may name a resource to which access permissions
 * are granted (for example, the name of a file) or it might represent
 * something else entirely. Similarly, the action list only has meaning
 * within the context of a subclass. Some permission names may have no
 * actions associated with them. That is, you either have the permission
 * or you don't.
 *
 * <p>The most important method in this class is <code>implies</code>. This
 * checks whether if one has this permission, then the specified
 * permission is also implied. As a conceptual example, consider the
 * permissions "Read All Files" and "Read File foo". The permission
 * "Read All Files" implies that the caller has permission to read the
 * file foo.
 *
 * <p><code>Permission</code>'s must be immutable - do not change their
 * state after creation.
 *
 * @author Aaron M. Renn (arenn@urbanophile.com)
 * @see Permissions
 * @see PermissionCollection
 * @since 1.1
 * @status updated to 1.4
 */

public abstract class Permission implements Guard, Serializable
{

/**
 * Compatible with JDK 1.1+.
 */

private static final long serialVersionUID = -5636570222231596674L;

/**
 * This is the name assigned to this permission object.
 *
 * @serial the name of the permission
 */

private String name;

/**
 * Create an instance with the specified name.
 *
 * @param name the permission name
 */
public Permission(String name)
{
    this.name = name;
}

/**
 * This method implements the <code>Guard</code> interface for this class.
 * It calls the <code>checkPermission</code> method in
 * <code>SecurityManager</code> with this <code>Permission</code> as its
 * argument. This method returns silently if the security check succeeds
 * or throws an exception if it fails.
 * *
 * @param obj the <code>Object</code> being guarded - ignored by this class
 * @throws SecurityException if the security check fails
 * @see GuardedObject
 * @see SecurityManager#checkPermission(Permission)
 */
public void checkGuard(Object obj)
{
    SecurityManager sm = System.getSecurityManager();
    if (sm != null)
        sm.checkPermission(this);
}

/**
 * This method tests whether this <code>Permission</code> implies that the
 * specified <code>Permission</code> is also granted.
 * *
 * @param perm the <code>Permission</code> to test against
 * @return true if perm is implied by this
 */
public abstract boolean implies(Permission perm);

/**
 * Check to see if this object equals obj. Use <code>equals</code>, rather
 * than <code>equals</code>, when making access control decisions.
 * *
 * @param obj the object to compare to
 */
public abstract boolean equals(Object obj);

/**
 * This method returns a hash code for this <code>Permission</code>. It
 * must satisfy the contract of <code>Object.hashCode</code>: it must be
 * the same for all objects that equals considers to be the same.
 * *
 * @return a hash value
 */
public abstract int hashCode();

/**
 * Get the name of this <code>Permission</code>.
 *
 * @return the name
 */
public final String getName()
{
    return name;
}

/**
 * This method returns the list of actions for this <code>Permission</code>
 * as a <code>String</code>. The string should be in canonical order, for
 * example, both <code>new FilePermission(f, "write,read")</code> and
 * <code>new FilePermission(f, "read,write")</code> have the action list
 * "read,write".
 *
 * @return the action list for this <code>Permission</code>
 */
public abstract String getActions();

/**
 * This method returns an empty <code>PermissionCollection</code> object
 * that can store permissions of this type, or <code>null</code> if no
 * such collection is defined. Subclasses must override this to provide
 * an appropriate collection when one is needed to accurately calculate
 * <code>implies</code>.
 *
 * @return a new <code>PermissionCollection</code>
 */
public PermissionCollection newPermissionCollection()
{
    return null;
}

/**
 * This method returns a <code>String</code> representation of this
 * <code>Permission</code> object. This is in the format:
 * <code>'('</code> + getClass().getName() + ' ' + getName() + ' ' + getActions + ' ' + getActions + ')'</code>.
 *
 * @return this object as a <code>String</code>
 */
public String toString()
{
    CPStringBuilder string = new CPStringBuilder();
```java
String string = append('(');
string = string.append(getClass().getName());
string = string.append(' ');
string = string.append(getName());

if (!(getActions().equals("")))
{
    string = string.append(' ');
    string = string.append(getActions());
}

string = string.append(')');
return string.toString();
}
} // class Permission
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package java.security.acl;

/**
 * This interface provides information about a permission that can be granted. Note that this is <em>not</em> the same as the class <code>java.security.Permission</code>.
 * @version 0.0
 * @author Aaron M. Renn (arenn@urbanophile.com)
 */
public interface Permission
{
/**
 * This method tests whether or not a specified <code>Permission</code> (passed as an <code>Object</code>) is the same as this permission.
 * @param perm The permission to check for equality
 * @return <code>true</code> if the specified permission is the same as this one, <code>false</code> otherwise
 */
boolean equals (Object perm);

/**
 * This method returns this <code>Permission</code> as a <code>String</code>.
 * @return A <code>String</code> representing this permission.
 */
String toString();
}

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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*m4/ax_func_which_gethostbyname_r.m4

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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined
and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U.,
the University of Washington, Rice University (where it was first used for
C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant
contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in
README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser.
The Encore Multimax modifications were supplied by
Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely
due to Vernon Lee, on machines made available to Rice by IBM.
Much of the HP specific code and a number of good suggestions for improving the
generic code are due to Walter Underwood.
Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.
Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk)
subsequently provided updates and information on variation between ULTRIX
systems. Parag Patel (parag@netcom.com) supplied the A/UX code.
Jesper Petersen(jep@m.tiame.mtia.oz.au), Michel Schinz, and
Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.
Thomas Funke (thf@zelator.in-berlin.de(?) and
Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and
Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks(agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn't
made it into the released version of the collector, yet.)

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Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

@iftex
@appendixsubsec TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
@end iftex
@ifinfo
@center GNU LESSER GENERAL PUBLIC LICENSE
@center TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
@end ifinfo

@enumerate 0
@item This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is
included without limitation in the term "modification".

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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@enumerate a
@item
The modified work must itself be a software library.
@item
You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
@item
You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
@item
If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

@item
You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

@item
A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

As an exception to the Sections above, you may also combine or link a `work that uses the Library` with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable `work that uses the Library`, as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.
You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

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It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the
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This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

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@end enumerate

@iftex
@heading END OF TERMS AND CONDITIONS
@end iftex
@ifinfo
@center END OF TERMS AND CONDITIONS
@end ifinfo

@page
@appendixsubsec How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

@smallexample
@var{one line to give the library's name and an idea of what it does.}
Copyright (C) @var{year} @var{name of author}

This library is free software; you can redistribute it and/or modify it
under the terms of the GNU Lesser General Public License as published by
the Free Software Foundation; either version 2.1 of the License, or (at
your option) any later version.

This library is distributed in the hope that it will be useful, but
WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301,
USA.
@end smallexample

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a ``copyright disclaimer'' for the library, if
necessary. Here is a sample; alter the names:

@end smallexample

Yoyodyne, Inc., hereby disclaims all copyright interest in the library
`Frob' (a library for tweaking knobs) written by James Random Hacker.

@end smallexample

That's all there is to it!

1.169 cracklib 2.9.0 :11.el7

1.169.1 Available under license:

This package was debianized by Jean Pierre LeJacq
<jplejacq@quoininc.com> on Wed, 25 Feb 1998. Martin Pitt
<martin@piware.de> was the package's maintainer up to version
2.7.19-1. The current maintainer is Jan Dittberner
<jandd@debian.org>.

It was downloaded from http://sourceforge.net/projects/cracklib

Copyright (c) 1993 Alec Muffett <alecm@crypto.dircon.co.uk>,
Copyright (c) 2005-2009 Nathan Neulinger <nneul@umr.edu>,
Copyright (c) 2008-2009 Jan Dittberner <jan@dittberner.info>

Modifications: Added cronjob, configuration file, and man pages.
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http://www.gnu.org/licenses/old-licenses/lgpl-2.1.html. You can also
obtain it by writing to the Free Software Foundation, Inc., 51
Franklin St, Fifth Floor, Boston, MA 02110-1301, USA.

Copyright information:

CrackLib was originally licensed with a variant of the Artistic
license. In the interests of wider acceptance and more modern
licensing, it was switched with the original author's blessing to GPL
v2.

This approval was carried out in email discussions in 2005, and has
been reconfirmed as of 2007-10-01 with the following email from Alec
Muffett. Cracklib's license was changed from the GPL to the LGPL after
consensus of all previous developers in October 2008, effective with
release 2.8.15 released on 2009-11-19. See the email discussion below
for both license changes.

EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected
in released code until Nov 2009 - slow release cycle...)

Discussion thread from mailing list archive, with approval from everyone actively
involved or holding original licensing rights included.

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=
=20
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
I understand that, and you're welcome to bring it up with Alec directly
and see if he wants to relicense his code as LGPL... but at this point,
it was enough to just get it consistent and documented as to what it was
released under. This wasn't actually a license change, just a
clarification of the licensing that was already in place.=20

-- Nathan
=20
------------------------------------------------------------
Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license
>=20
> looks like 2.8.11 is out and marked as "GPL-2" ... releasing
> libraries under
> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> -mike

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML
On Monday 01 October 2007, Neulinger, Nathan wrote:
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.
Open Source Used In Application Centric Infrastructure Service Engine (ACI-SE) 1.1

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46

Seems like the ideal thing here would be for you and the other distro maintainers to get together with Alec in a conversation and come to a decision as to what licensing scheme y'all want. I haven't really done much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan

------------------------------------------------------------
Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
>
> > -----Original Message-----
> > From: cracklib-devel-bounces@li...
> > [mailto:cracklib-devel-bounces@li...] On Behalf Of
> > Mike Frysinger
> > Sent: Monday, October 01, 2007 8:33 PM
> > To: Neulinger, Nathan
> > Cc: cracklib-devel@li...; Alec Muffett
> > Subject: Re: [Cracklib-devel] cracklib license
> >
> > > I understand that, and you're welcome to bring it up with Alec
directly
> > > and see if he wants to relicense his code as LGPL... but at this
> > point,
> > > it was enough to just get it consistent and documented as to what
> > it was
> > > released under. This wasn't actually a license change, just a
> > > clarification of the licensing that was already in place.


Open Source Used In Application Centric Infrastructure Service Engine (ACI-SE) 1.1

>=20
> the original license (before moving to sourceforge -- aka, 2.7) was
> not
> GPL-2 ... it was a modified artistic license ... i didnt notice the
> license
> change until it was mentioned in the latest notes.
> >=20
> unlike the old license, GPL-2 prevents people from using cracklib
> unless their
> applications are also GPL-2 which imo is just wrong. it isnt the
> place of a
> library to dictact to application writes what license they should
> be using.
> thus LGPL-2.1 enters to fill this void.
> -mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done
> much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be
linked with any code, not just GPL...

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
I would like to see it under LGPL as well. I think it is in everyone's
best interests to have as secure systems as possible, and I think tainting
it via GPL will just make it less likely that the library gets used, and
will not usually cause companies/developers to GPL the dependent code
(where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct
license in this situation.

Devin
--
If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > Seems like the ideal thing here would be for you and the other distro
> > maintainers to get together with Alec in a conversation and come to a
> > decision as to what licensing scheme y'all want. I haven't really done
> > much other than cleaning up the packaging and patches and a small
> > bit of
> > additional code, so whatever licensing y'all come up with is fine
> > by me.
> >
> I am sympathetic. Guys, what do you reckon?
> >
> What I am hearing so far is that LGPL makes sense, since it can be
> linked with any code, not just GPL....

My apologies for not chiming in in anything resembling a reasonable
timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately,
GPLv2 with the option of using the library under a later version of the
GPL would permit applications which were released under version 3 of the
GPL to use the library, too, which would be sufficient for the packages
which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML
On Monday 28 January 2008, Nalin Dahyabhai wrote:
> > On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > > Seems like the ideal thing here would be for you and the other distro
> > > maintainers to get together with Alec in a conversation and come to a
> > > decision as to what licensing scheme y'all want. I haven't really done
> > > much other than cleaning up the packaging and patches and a small
> > > bit of
> > > additional code, so whatever licensing y'all come up with is fine
> > > by me.
I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be linked with any code, not just GPL...

My apologies for not chiming in in anything resembling a reasonable timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately, GPLv2 with the option of using the library under a later version of the GPL would permit applications which were released under version 3 of the GPL to use the library, too, which would be sufficient for the packages which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now?

-mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18

>> In any case, I thank you both for working on sorting this out.
>
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now?
> the change now?

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML

On Sunday 05 October 2008, Alec Muffett wrote:
>> In any case, I thank you both for working on sorting this out.
> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now?
> > yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...

-mike
CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.

From alecm@crypticide.com Mon Oct  1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
    Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
    Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
    by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
    by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id 191Gxptr020623
for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
    by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3])
    by rutherford.zen.co.uk with esmtp (Exim 4.50)
    id 1HcOcX-0004Qt-6L
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dadc0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel=localhost.localdomain>
    <EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
    <1b1b3fd80710010908k11dadc0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

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Version 2.1, February 1999

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However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.
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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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   b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining
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library 'Frob' (a library for tweaking knobs) written by James
Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

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EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected
in released code until Nov 2009 - slow release cycle...)
-----------

Discussion thread from mailing list archive, with approval from everyone actively
involved or holding original licensing rights included.

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=r=20
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
I understand that, and you're welcome to bring it up with Alec directly
and see if he wants to relicense his code as LGPL... but at this point,
it was enough to just get it consistent and documented as to what it was
released under. This wasn't actually a license change, just a
clarification of the licensing that was already in place.=20

-- Nathan
> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license

> looks like 2.8.11 is out and marked as "GPL-2" ... releasing
> libraries under
> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> -mike

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML
On Monday 01 October 2007, Neulinger, Nathan wrote:
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not
GPL-2 ... it was a modified artistic license ... i didn't notice the license=
=20
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=
eir=20
applications are also GPL-2 which imo is just wrong. it isn't the place of =
a=20
library to dictact to application writes what license they should be using.=
=20
thus LGPL-2.1 enters to fill this void.
=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46
Seems like the ideal thing here would be for you and the other distro maintainers to get together with Alec in a conversation and come to a decision as to what licensing scheme y'all want. I haven't really done much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan

Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license

> On Monday 01 October 2007, Neulinger, Nathan wrote:
> > I understand that, and you're welcome to bring it up with Alec
> > directly
> > and see if he wants to relicense his code as LGPL... but at this
> > point,
> > it was enough to just get it consistent and documented as to what
> > it was
> > released under. This wasn't actually a license change, just a
> > clarification of the licensing that was already in place.
> > the original license (before moving to sourceforge -- aka, 2.7) was
> > not
> > GPL-2 ... it was a modified artistic license ... i didnt notice the
> > license
> > change until it was mentioned in the latest notes.
> > unlike the old license, GPL-2 prevents people from using cracklib
> > unless their
> > applications are also GPL-2 which imo is just wrong. it isnt the
> > place of a
> > library to dictact to application writes what license they should
> > be using.
> > thus LGPL-2.1 enters to fill this void.
> > -mike
Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done
> much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be
linked with any code, not just GPL....

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
I would like to see it under LGPL as well. I think it is in everyone's
best interests to have as secure systems as possible, and I think tainting
it via GPL will just make it less likely that the library gets used, and
will not usually cause companies/developers to GPL the dependent code
(where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct
license in this situation.

Devin
--
If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > Seems like the ideal thing here would be for you and the other distro
> > maintainers to get together with Alec in a conversation and come to a
> > decision as to what licensing scheme y'all want. I haven't really done
> > much other than cleaning up the packaging and patches and a small
> > bit of
> > additional code, so whatever licensing y'all come up with is fine
> > by me.
> > I am sympathetic. Guys, what do you reckon?
> > What I am hearing so far is that LGPL makes sense, since it can be
My apologies for not chiming in in anything resembling a reasonable timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately, GPLv2 with the option of using the library under a later version of the GPL would permit applications which were released under version 3 of the GPL to use the library, too, which would be sufficient for the packages which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML
On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> >> Seems like the ideal thing here would be for you and the other distro
> >> maintainers to get together with Alec in a conversation and come to a
> >> decision as to what licensing scheme y'all want. I haven't really done
> >> much other than cleaning up the packaging and patches and a small
> >> additional code, so whatever licensing y'all come up with is fine
> >> by me.
> >>
> >> I am sympathetic. Guys, what do you reckon?
> >>
> >> What I am hearing so far is that LGPL makes sense, since it can be
> >> linked with any code, not just GPL...
> >
> > My apologies for not chiming in in anything resembling a reasonable
> > timeframe.
> >
> > I'd also suggest the LGPL, for the reason you noted above. Alternately,
> > GPLv2 with the option of using the library under a later version of the
> > GPL would permit applications which were released under version 3 of the
> > GPL to use the library, too, which would be sufficient for the packages
> > which are included in Fedora. FWIW, I'd personally lean toward LGPL.
> >
> > In any case, I thank you both for working on sorting this out.
looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now?
-mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18
>> In any case, I thank you both for working on sorting this out.
>
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
> the change now?

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML
On Sunday 05 October 2008, Alec Muffett wrote:
> >> In any case, I thank you both for working on sorting this out.
> >
> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
> > the change now ?
> >
> > yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...
-mike

----------
BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL FROM ARTISTIC.
----------

CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.
From alecm@crypticide.com Mon Oct  1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
    Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
    Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
    by scan-in-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
    by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxtrp020623
    for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
    by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
    for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3])
    by rutherford.zen.co.uk with esmtp (Exim 4.50)
    id 11cOcX-0004Qt-6L
    for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
    <EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
    <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBBFE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length: 585
Lines: 21

> 
> ---------- Forwarded message ----------
> From: Neulinger, Nathan <nneul@umr.edu>
Any chance you could write me a self-contained email stating clearly
that the license is being changed to GPL, so I could include that
email
in the repository and clean up the repository/tarballs? I have all the
original discussion, but something succinct and self contained
would be
ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)
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In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

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b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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Appendix: How to Apply These Terms to Your New Programs

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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

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You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

Also add information on how to contact you by electronic and paper mail.

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The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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Version 2, June 1991

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[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

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To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

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The reason we have a separate public license for some libraries is that
they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or

table, the facility still operates, and performs whatever part of

its purpose remains meaningful.

(For example, a function in a library to compute square roots has

a purpose that is entirely well-defined independent of the

application. Therefore, Subsection 2d requires that any

application-supplied function or table used by this function must

be optional: if the application does not supply it, the square

root function must still compute square roots.)

These requirements apply to the modified work as a whole. If

identifiable sections of that work are not derived from the Library,

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themselves, then this License, and its terms, do not apply to those

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on the Library, the distribution of the whole must be on the terms of

this License, whose permissions for other licensees extend to the

entire whole, and thus to each and every part regardless of who wrote

it.

Thus, it is not the intent of this section to claim rights or contest

your rights to work written entirely by you; rather, the intent is to

exercise the right to control the distribution of derivative or

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In addition, mere aggregation of another work not based on the Library

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these notices.

Once this change is made in a given copy, it is irreversible for

that copy, so the ordinary GNU General Public License applies to all

subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of

the Library into a program that is not a library.
4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit
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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable “work that uses the Library”, as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you
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a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

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Appendix: How to Apply These Terms to Your New Libraries

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<signature of Ty Coon>, 1 April 1990
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Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to
permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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  <P>
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  <P>(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square
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Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy  <name of author>

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Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

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This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.
The hypothetical commands `show w` and `show c` should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w` and `show c`; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision` (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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Version 2, June 1991

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59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a
derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)
"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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   (For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

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facilities. This must be distributed under the terms of the
Sections above.

b) Give prominent notice with the combined library of the fact
that part of it is a work based on the Library, and explaining
where to find the accompanying uncombined form of the same work.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

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Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.182 curl 7.37.0-42.1

1.183 curl 7.29.0 :25.el7.centos

1.183.1 Available under license:

License Mixing with apps, libcurl and Third Party Libraries

libcurl can be built to use a fair amount of various third party libraries, libraries that are written and provided by other parties that are distributed using their own licenses. Even libcurl itself contains code that may cause problems to some. This document attempts to describe what licenses libcurl and the other libraries use and what possible dilemmas linking and mixing them all can lead to for end users.

I am not a lawyer and this is not legal advice!

One common dilemma is that GPL[1]-licensed code is not allowed to be linked with code licensed under the Original BSD license (with the announcement clause). You may still build your own copies that use them all, but
distributing them as binaries would be to violate the GPL license - unless you accompany your license with an exception[2]. This particular problem was addressed when the Modified BSD license was created, which does not have the announcement clause that collides with GPL.

libcurl http://curl.haxx.se/docs/copyright.html

Uses an MIT (or Modified BSD)-style license that is as liberal as possible. Some of the source files that deal with KRB4 have Original BSD-style announce-clause licenses. You may not distribute binaries with krb4-enabled libcurl that also link with GPL-licensed code!

OpenSSL http://www.openssl.org/source/license.html

(May be used for SSL/TLS support) Uses an Original BSD-style license with an announcement clause that makes it "incompatible" with GPL. You are not allowed to ship binaries that link with OpenSSL that includes GPL code (unless that specific GPL code includes an exception for OpenSSL - a habit that is growing more and more common). If OpenSSL’s licensing is a problem for you, consider using GnuTLS or yassl instead.

GnuTLS  http://www.gnutls.org/

(May be used for SSL/TLS support) Uses the LGPL[3] license. If this is a problem for you, consider using OpenSSL instead. Also note that GnuTLS itself depends on and uses other libs (libgcrypt and libgpg-error) and they too are LGPL- or GPL-licensed.

yassl  http://www.yassl.com/

(May be used for SSL/TLS support) Uses the GPL[1] license. If this is a problem for you, consider using OpenSSL or GnuTLS instead.

NSS     http://www.mozilla.org/projects/security/pki/nss/

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axTLS   http://axtls.sourceforge.net/

(May be used for SSL/TLS support) Uses a Modified BSD-style license.

c-ares http://daniel.haxx.se/projects/c-ares/license.html
(Used for asynchronous name resolves) Uses an MIT license that is very liberal and imposes no restrictions on any other library or part you may link with.

zlib  http://www.gzip.org/zlib/zlib_license.html

(Used for compressed Transfer-Encoding support) Uses an MIT-style license that shouldn't collide with any other library.

krb4

While nothing in particular says that a Kerberos4 library must use any particular license, the one I've tried and used successfully so far (kth-krb4) is partly Original BSD-licensed with the announcement clause. Some of the code in libcurl that is written to deal with Kerberos4 is Modified BSD-licensed.

MIT Kerberos http://web.mit.edu/kerberos/www/dist/

(May be used for GSS support) MIT licensed, that shouldn't collide with any other parts.

Heimdal http://www.pdc.kth.se/heimdal/

(May be used for GSS support) Heimdal is Original BSD licensed with the announcement clause.

GNU GSS http://www.gnu.org/software/gss/

(May be used for GSS support) GNU GSS is GPL licensed. Note that you may not distribute binary curl packages that uses this if you build curl to also link and use any Original BSD licensed libraries!

fbopenssl

(Used for SPNEGO support) Unclear license. Based on its name, I assume that it uses the OpenSSL license and thus shares the same issues as described for OpenSSL above.

libidn  http://josefsson.org/libidn/

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(Used for LDAP support) Uses a Modified BSD-style license. Since libcurl uses OpenLDAP as a shared library only, I have not heard of anyone that ships OpenLDAP linked with libcurl in an app.

libssh2 http://www.libssh2.org/

(Used for scp and sftp support) libssh2 uses a Modified BSD-style license.

[2] = http://www.fsf.org/licenses/gpl-faq.html#GPLIncompatibleLibs details on how to write such an exception to the GPL

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1.184 curl 7.61.1-11
1.185 cvs 1.11.23-35.el7

1.185.1 Available under license:

[I have snipped the snail mail address of the FSF because it has changed in the past and is likely to change again. The current address should be at http://www.gnu.org/]

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under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the
appropriate parts of the General Public License. Of course, the
commands you use may be called something other than `show w' and `show
c'; they could even be mouse-clicks or menu items--whatever suits your
program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
program `Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

That's all there is to it!

1.186 cvs 1.11.23-35
1.186.1 Available under license :
[I have snipped the snail mail address of the FSF because it has
changed in the past and is likely to change again. The current
address should be at http://www.gnu.org/]

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Version 2, June 1991

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of this license document, but changing it is not allowed.

[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

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For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

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the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.
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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License. You must supply a copy of this License. If the work
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directing the user to the copy of this License. Also, you must do one
of these things:

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machine-readable source code for the Library including whatever
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Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
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to use the modified definitions.)

b) Accompany the work with a written offer, valid for at
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c) If distribution of the work is made by offering access to copy
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d) Verify that the user has already received a copy of these
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It may happen that this requirement contradicts the license
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Appendix: How to Apply These Terms to Your New Libraries

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You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

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transferring a copy.

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you changed the files and the date of any change; and

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with or without modifications, to be licensed at no charge to all
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that you may choose to grant warranty protection to some or all
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   c) If the modified program normally reads commands interactively when
run, you must cause it, when started running for such interactive use
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Mere aggregation of another independent work with the Program (or its
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it, under Paragraph 2) in object code or executable form under the terms of
Paragraphs 1 and 2 above provided that you also do one of the following:

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Paragraphs 1 and 2 above; or,

   b) accompany it with a written offer, valid for at least three
years, to give any third party free (except for a nominal charge
for the cost of distribution) a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Paragraphs 1 and 2 above; or,

c) accompany it with the information you received as to where the corresponding source code may be obtained. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form alone.)

Source code for a work means the preferred form of the work for making modifications to it. For an executable file, complete source code means all the source code for all modules it contains; but, as a special exception, it need not include source code for modules which are standard libraries that accompany the operating system on which the executable file runs, or for standard header files or definitions files that accompany that operating system.

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Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to humanity, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy  <name of author>
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Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

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    Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
    This is free software, and you are welcome to redistribute it
    under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the
appropriate parts of the General Public License. Of course, the
commands you use may be called something other than `show w' and `show
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1.188 cyrus-sasl 2.1.26 :19.2.el7

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 * Rob Earhart
 * Rob Siemborski
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1.203 dejavu-fonts 2.33 :6.el7

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1.204 dejavu-fonts-common 2.33-6

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.
b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.) Do not make any other change in
these notices.

Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)
Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception,
the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

   a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

   b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

To apply these terms, attach the following notices to the library. It is
safer to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
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Software Foundation, Inc., 59 Temple Place - Suite 330, Boston,
MA 02111-1307, USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library "Frob" (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.213 device-mapper-multipath-libs 0.4.9-123
1.213.1 Available under license :

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[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

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your libraries, too.

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if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if
you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you. You must make sure that they, too, receive or can get the source
code. If you link a program with the library, you must provide
complete object files to the recipients so that they can relink them
with the library, after making changes to the library and recompiling
it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright
the library, and (2) offer you this license which gives you legal
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Also, for each distributor's protection, we want to make certain
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want its recipients to know that what they have is not the original
version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary
General Public License rather than by this special one.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.
2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under
the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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1.215 dhclient 4.2.5 :68.el7_5.1

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* configure.ac, Makefile.am: The original versions were derived from the
ones in the XML Catalog Manager project, version 2.2.

    Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were
derived form the ones in the Monotone project, revision
3a0982da308228d796df35f98d787c5cff2bb5b6.

    Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp:
These files were derived from the file_handle, systembuf, pipe and pistream
classes and tests found in the Boost.Process library.

    Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk,
admin/check-style-cpp.awk, admin/check-style-shell.awk: These files,
except the first one, were first implemented in the Buildtool project.
They were later adapted to be part of Boost.Process and, during that
process, the shell script was created.

    Author: Julio Merino <jmmv84@gmail.com>

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* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp:
  These files were derived from the file_handle, systembuf, pipe and pistream
classes and tests found in the Boost.Process library.

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* admin/check-style.sh, admin/check-style-common.awk,
  admin/check-style-cpp.awk, admin/check-style-shell.awk: These files,
  except the first one, were first implemented in the Buildtool project.
  They were later adapted to be part of Boost.Process and, during that
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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were derived form the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5c6f2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

===========================================================================

vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2

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<!- $Id: copyright.xsl,v 1.8 2009/07/10 23:47:58 tbox Exp $ -->

<!- Generate ISC copyright comments from Docbook copyright metadata. -->

<xsl:stylesheet xmlns:xsl="http://www.w3.org/1999/XSL/Transform" version="1.0">
  <xsl:template name="isc.copyright.format">
    <xsl:param name="text"/>
    <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
    <xsl:text>&#10;</xsl:text>
    <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
    <xsl:if test="translate($rest, '&#9;&#32;', '')">
      <xsl:call-template name="isc.copyright.format">
        <xsl:with-param name="text" select="$rest"/>
      </xsl:call-template>
    </xsl:if>
  </xsl:template>

  <xsl:variable name="isc.copyright.text">
    <xsl:text>Permission to use, copy, modify, and/or distribute this software for any
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  </xsl:variable>
</xsl:stylesheet>
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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5bff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and piostream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files,
except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

 vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
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 -->

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  <xsl:template name="isc.copyright.format">
    <xsl:param name="text"/>
    <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
    <xsl:text>&#10;</xsl:text>
    <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
    <xsl:if test="translate($rest, '&#9;&#32;', '')">
      <xsl:call-template name="isc.copyright.format">
        <xsl:with-param name="text" select="$rest"/>
      </xsl:call-template>
    </xsl:if>
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* configure.ac, Makefile.am: The original versions were derived from the
  ones in the XML Catalog Manager project, version 2.2.

  Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were
  derived form the ones in the Monotone project, revision
  3a0982da308228d796df35f98d787c5cffe2bb5b6.

  Author: Julio Merino <jmmv@NetBSD.org>
* `atf-c++/detail/io.hpp`, `atf-c++/detail/io.cpp`, `atf-c++/detail/io_test.cpp`:
These files were derived from the `file_handle`, `systembuf`, `pipe` and `pistream`
classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* `admin/check-style.sh`, `admin/check-style-common.awk`,
`admin/check-style-cpp.awk`, `admin/check-style-shell.awk`:
These files, except the first one, were first implemented in the Buildtool project.
They were later adapted to be part of Boost.Process and, during that
process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

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    <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
    <xsl:text>&#10;</xsl:text>
    <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
    <xsl:if test="translate($rest, '&#9;&#32;', '')">
      <xsl:call-template name="isc.copyright.format">
      </xsl:call-template>
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Gocheck - A rich testing framework for Go

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Gocheck - A rich testing framework for Go

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Gocheck - A rich testing framework for Go

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FUNCTIONS

func Negotiate(header string, alternatives []string) (content_type string)
Negotiate the most appropriate content_type given the accept header
and a list of alternatives.

func ParseAccept(header string) (accept []Accept)
Parse an Accept Header string returning a sorted list
of clauses

TYPES

type Accept struct {
    Type, SubType string
    Q          float32
    Params     map[string]string
}
Structure to represent a clause in an HTTP Accept Header

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.hg

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Go support for Protocol Buffers - Google's data interchange format

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This package and the code it generates requires at least Go 1.4.

This software implements Go bindings for protocol buffers. For
information about protocol buffers themselves, see
https://developers.google.com/protocol-buffers/

## Installation ##

To use this software, you must:
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  https://developers.google.com/protocol-buffers/
- Of course, install the Go compiler and tools from
  https://golang.org/
  See
  https://golang.org/doc/install
  for details or, if you are using gccgo, follow the instructions at
  https://golang.org/doc/install/gccgo
- Grab the code from the repository and install the proto package.
  The simplest way is to run
  go get -u github.com/golang/protobuf/[proto,protoc-gen-go]
  The compiler plugin, protoc-gen-go, will be installed in $GOBIN,
  defaulting to $GOPATH/bin. It must be in your $PATH for the protocol
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See the note at the bottom of this file for details.

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GoGoProtobuf provides extensions for protocol buffers and GoProtobuf
## Using protocol buffers with Go ##

Once the software is installed, there are two steps to using it. First you must compile the protocol buffer definitions and then import them, with the support library, into your program.

To compile the protocol buffer definition, run protoc with the `--gogo_out` parameter set to the directory you want to output the Go code to.

```
protoc --gogo_out=. *.proto
```

The generated files will be suffixed `.pb.go`. See the Test code below for an example using such a file.

The package comment for the proto library contains text describing the interface provided in Go for protocol buffers. Here is an edited version.

If you are using any gogo.proto extensions you will need to specify the `proto_path` to include the descriptor.proto and gogo.proto. gogo.proto is located in `github.com/gogo/protobuf/gogoproto` This should be fine, since your import is the same. descriptor.proto is located in either `github.com/gogo/protobuf/protobuf` or `code.google.com/p/protobuf/trunk/src/` Its import is google/protobuf/descriptor.proto so it might need some help.

```
protoc --gogo_out=. -I=.:github.com/gogo/protobuf/protobuf *.proto
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The proto package converts data structures to and from the wire format of protocol buffers. It works in concert with the Go source code generated for `.proto` files by the protocol compiler.

A summary of the properties of the protocol buffer interface for a protocol buffer variable `v`:

- Names are turned from camel_case to CamelCase for export.
- There are no methods on `v` to set fields; just treat them as structure fields.
- There are getters that return a field's value if set, and return the field's default value if unset. The getters work even if the receiver is a nil message.
- The zero value for a struct is its correct initialization state.
- All desired fields must be set before marshaling.
- A `Reset()` method will restore a protobuf struct to its zero state.
Non-repeated fields are pointers to the values; nil means unset. That is, optional or required field int32 f becomes F *int32.

Repeated fields are slices.

Helper functions are available to aid the setting of fields. Helpers for getting values are superseded by the GetFoo methods and their use is deprecated.

msg.Foo = proto.String("hello") // set field

Constants are defined to hold the default values of all fields that have them. They have the form Default_StructName_FieldName.

Because the getter methods handle defaulted values, direct use of these constants should be rare.

 Enums are given type names and maps from names to values.

Enum values are prefixed with the enum's type name. Enum types have a String method, and a Enum method to assist in message construction.

Nested groups and enums have type names prefixed with the name of the surrounding message type.

Extensions are given descriptor names that start with E_, followed by an underscore-delimited list of the nested messages that contain it (if any) followed by the CamelCased name of the extension field itself. HasExtension, ClearExtension, GetExtension and SetExtension are functions for manipulating extensions.

Oneof field sets are given a single field in their message, with distinguished wrapper types for each possible field value.

Marshal and Unmarshal are functions to encode and decode the wire format.

Consider file test.proto, containing

```protobuf
default = 77; 

message Test {
  required string label = 1;
  optional int32 type = 2 [default=77];
  repeated int64 reps = 3;
  optional group OptionalGroup = 4 {
    required string RequiredField = 5;
  }
}
```

To create and play with a Test object from the example package,

```go
package main

import ("log"
  "github.com/gogo/protobuf/proto"

```
func main() {
    test := &example.Test {
        Label: proto.String("hello"),
        Type: proto.Int32(17),
        OptionalGroup: &example.Test_OptionalGroup {
            RequiredField: proto.String("good bye"),
        },
    }
    data, err := proto.Marshal(test)
    if err != nil {
        log.Fatal("marshaling error: ", err)
    }
    newTest := &example.Test{}
    err = proto.Unmarshal(data, newTest)
    if err != nil {
        log.Fatal("unmarshaling error: ", err)
    }
    // Now test and newTest contain the same data.
    if test.GetLabel() != newTest.GetLabel() {
        log.Fatalf("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
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}

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If a proto file specifies RPC services, protoc-gen-go can be instructed to generate code compatible with gRPC (http://www.grpc.io/). To do this, pass the `plugins` parameter to protoc-gen-go: the usual way is to insert it into the --go_out argument to protoc:

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Extensions for Protocol Buffers to create more go like structures.

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http://github.com/gogo/protobuf/gogoproto

Go support for Protocol Buffers - Google's data interchange format

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This package and the code it generates requires at least Go 1.4.

This software implements Go bindings for protocol buffers. For information about protocol buffers themselves, see https://developers.google.com/protocol-buffers/

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- Install the standard C++ implementation of protocol buffers from https://developers.google.com/protocol-buffers/
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- Grab the code from the repository and install the proto package.
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To compile the protocol buffer definition, run protoc with the --gogo_out
parameter set to the directory you want to output the Go code to.

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  }
}

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package main

import (  
  "log"

  "github.com/gogo/protobuf/proto"
  "path/to/example"
)

func main() {
  test := &example.Test {
    Label: proto.String("hello"),
    Type:  proto.Int32(17),
    Optionalgroup: &example.Test_OptionalGroup {
      RequiredField: proto.String("good bye"),
    },
  }
  data, err := proto.Marshal(test)
  if err != nil {
    log.Fatal("marshaling error: ", err)
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  err = proto.Unmarshal(data, newTest)
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http://github.com/gogo/protobuf/gogoprotoc

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- Grab the code from the repository and install the proto package. The simplest way is to run:
  go get -u github.com/golang/protobuf/{proto,protoc-gen-go}
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descriptor.proto is located in either github.com/gogo/protobuf/protobuf or code.google.com/p/protobuf/trunk/src/
Its import is google/protobuf/descriptor.proto so it might need some help.

protoc --gogo_out=. -I=.:github.com/gogo/protobuf/protobuf *.proto

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- Nested groups and enums have type names prefixed with the name of
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- Extensions are given descriptor names that start with E_,
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- Marshal and Unmarshal are functions to encode and decode the wire format.

Consider file test.proto, containing

package example;

enum FOO { X = 17; }

message Test {
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  repeated int64 reps = 3;
  optional group OptionalGroup = 4 {
    required string RequiredField = 5;
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}

To create and play with a Test object from the example package,

package main

import (
  "log"
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  "path/to/example"
)

func main() {
  test := &example.Test {
    Label: proto.String("hello"),
    Type: proto.Int32(17),
    OptionalGroup: &example.Test_OptionalGroup {
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    },
  }
}
data, err := proto.Marshal(test)
if err != nil {
    log.Fatal("marshaling error: ", err)
}
newTest := &example.Test{}
err = proto.Unmarshal(data, newTest)
if err != nil {
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}
// Now test and newTest contain the same data.
if test.GetLabel() != newTest.GetLabel() {
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}
// etc.

--

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If a proto file specifies RPC services, protoc-gen-go can be instructed to
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  https://golang.org/doc/install/gccgo
- Grab the code from the repository and install the proto package.
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            RequiredField: proto.String("good bye"),
        },
    }
    data, err := proto.Marshal(test)
    if err != nil {
        log.Fatal("marshaling error: ", err)
    }
    newTest := &example.Test{}
    err = proto.Unmarshal(data, newTest)
    if err != nil {
        log.Fatal("unmarshaling error: ", err)
    }
    // Now test and newTest contain the same data.
    if test.GetLabel() != newTest.GetLabel() {
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    }
    // etc.
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```
protoc --gogo_out=plugins=grpc:. *.proto
```

---

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## Installation ##
To use this software, you must:
- Install the standard C++ implementation of protocol buffers from
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- Of course, install the Go compiler and tools from
  https://golang.org/
  See
  https://golang.org/doc/install
  for details or, if you are using gccgo, follow the instructions at
  https://golang.org/doc/install/gccgo
- Grab the code from the repository and install the proto package.
  The simplest way is to run
  go get -u github.com/golang/protobuf/{proto,protoc-gen-go}
  The compiler plugin, protoc-gen-go, will be installed in $GOBIN,
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First you must compile the protocol buffer definitions and then import
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The generated files will be suffixed .pb.go. See the Test code below
for an example using such a file.

The package comment for the proto library contains text describing
the interface provided in Go for protocol buffers. Here is an edited
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proto_path to include the descriptor.proto and gogo.proto.
gogo.proto is located in github.com/gogo/protobuf/gogoproto
This should be fine, since your import is the same.
descriptor.proto is located in either github.com/gogo/protobuf/protobuf
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Its import is google/protobuf/descriptor.proto so it might need some help.

protoc --gogo_out=. -I=.github.com/gogo/protobuf/protobuf *.proto

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msg.Foo = proto.String("hello") // set field
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Consider file `test.proto`, containing

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package example;

enum FOO { X = 17; };

message Test {
  required string label = 1;
  optional int32 type = 2 [default=77];
  repeated int64 reps = 3;
  optional group OptionalGroup = 4 {
    required string RequiredField = 5;
  }
}
```

To create and play with a `Test` object from the example package,

```go
package main

import (
  "log"
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  "path/to/example"
)

func main() {
  test := &example.Test {
    Label: proto.String("hello"),
    Type: proto.Int32(17),
    OptionalGroup: &example.Test_OptionalGroup {
      RequiredField: proto.String("good bye"),
    },
  }
  data, err := proto.Marshal(test)
  if err != nil {
    log.Fatal("marshaling error: ", err)
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  newTest := &example.Test{}
  err = proto.Unmarshal(data, newTest)
  if err != nil {
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```
// Now test and newTest contain the same data.
if test.GetLabel() != newTest.GetLabel() {
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If a proto file specifies RPC services, protoc-gen-go can be instructed to
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Extensions for Protocol Buffers to create more go like structures.

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Go support for Protocol Buffers - Google's data interchange format

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gogo.proto is located in github.com/gogo/protobuf/gogoproto
This should be fine, since your import is the same.
descriptor.proto is located in either github.com/gogo/protobuf/protobuf
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Its import is google/protobuf/descriptor.proto so it might need some help.

```
protoc --gogo_out=. -I=.:github.com/gogo/protobuf/protobuf *.proto
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define FOO { X = 17; }

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  optional group OptionalGroup = 4 {
    required string RequiredField = 5;
  }
}
```

To create and play with a Test object from the example package,

```go
package main

import (  
  "log"
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```
func main() {
    test := &example.Test {
        Label: proto.String("hello"),
        Type:  proto.Int32(17),
        Optionalgroup: &example.Test_OptionalGroup {
            RequiredField: proto.String("good bye"),
        },
    }
    data, err := proto.Marshal(test)
    if err != nil {
        log.Fatal("marshaling error: ", err)
    }
    newTest := &example.Test {
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    err = proto.Unmarshal(data, newTest)
    if err != nil {
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Consider file test.proto, containing

```
package example;

enum FOO { X = 17; };
```
message Test {
  required string label = 1;
  optional int32 type = 2 [default=77];
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  optional group OptionalGroup = 4 {
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To create and play with a Test object from the example package,

package main

import (
  "log"
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    },
  }
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data, err := proto.Marshal(test)
if err != nil {
    log.Fatal("marshaling error: ", err)
}
newTest := &example.Test{}
err = proto.Unmarshal(data, newTest)
if err != nil {
    log.Fatal("unmarshaling error: ", err)
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// Now test and newTest contain the same data.
if test.GetLabel() != newTest.GetLabel() {
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protoc --gogo_out=plugins=grpc:. *.proto
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---

Extensions for Protocol Buffers to create more go like structures.

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http://github.com/gogo/protobuf/gogoproto

Go support for Protocol Buffers - Google's data interchange format

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  See
  https://golang.org/doc/install
  for details or, if you are using gccgo, follow the instructions at
  https://golang.org/doc/install/gccgo
- Grab the code from the repository and install the proto package.
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protoc --gogo_out= *.proto

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If you are using any gogo.proto extensions you will need to specify the proto_path to include the descriptor.proto and gogo.proto. gogo.proto is located in github.com/gogo/protobuf/gogoproto
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descriptor.proto is located in either github.com/gogo/protobuf/protobuf or code.google.com/p/protobuf/trunk/src/
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test := &example.Test {
Label: proto.String("hello"),
Type: proto.Int32(17),
Optionalgroup: &example.Test_OptionalGroup {
    RequiredField: proto.String("good bye"),
},
}
data, err := proto.Marshal(test)
if err != nil {
    log.Fatal("marshaling error: ", err)
}
newTest := &example.Test{}
err = proto.Unmarshal(data, newTest)
if err != nil {
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}
// Now test and newTest contain the same data.
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= Godeps/_workspace/src/github.com/gogo/protobuf/plugin/marshalto licensed under: =
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If you are using any gogo.proto extensions you will need to specify the
proto_path to include the descriptor.proto and gogo.proto.
gogo.proto is located in github.com/gogo/protobuf/gogoprotoc
This should be fine, since your import is the same.
descriptor.proto is located in either github.com/gogo/protobuf/protobuf
or code.google.com/p/protobuf/trunk/src/
Its import is google/protobuf/descriptor.proto so it might need some help.

protoc --gogo_out=. -I=.:github.com/gogo/protobuf/protobuf *.proto

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  - Helper functions are available to aid the setting of fields.
    Helpers for getting values are superseded by the
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    msg.Foo = proto.String("hello") // set field
    - Constants are defined to hold the default values of all fields that
      have them. They have the form Default_StructName_FieldName.
      Because the getter methods handle defaulted values,
      direct use of these constants should be rare.
  - Enums are given type names and maps from names to values.
    Enum values are prefixed with the enum's type name. Enum types have
    a String method, and a Enum method to assist in message construction.
  - Nested groups and enums have type names prefixed with the name of
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  - Extensions are given descriptor names that start with E_,
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Consider file test.proto, containing

```protobuf
package example;

enum FOO { X = 17; }

message Test {
  required string label = 1;
  optional int32 type = 2 [default=77];
  repeated int64 reps = 3;
  optional group OptionalGroup = 4 {
    required string RequiredField = 5;
  }
}
```

To create and play with a Test object from the example package,

```go
package main

import (
  "log"
  "github.com/gogo/protobuf/proto"
  "path/to/example"
)

func main() {
  test := &example.Test {
    Label: proto.String("hello"),
    Type: proto.Int32(17),
    Optionalgroup: &example.Test_OptionalGroup {
      RequiredField: proto.String("good bye"),
    },
  }
  data, err := proto.Marshal(test)
  if err != nil {
    log.Fatal("marshaling error: ", err)
  }
  newTest := &example.Test {
  }
  err = proto.Unmarshal(data, newTest)
  if err != nil {
    log.Fatal("unmarshaling error: ", err)
  }
  // Now test and newTest contain the same data.
```
if test.GetLabel() != newTest.GetLabel() {
    log.Fatalf("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
} // etc.
}

---

gRPC Support

=============

If a proto file specifies RPC services, protoc-gen-go can be instructed to

generate code compatible with gRPC (http://www.grpc.io/). To do this, pass

the `plugins` parameter to protoc-gen-go; the usual way is to insert it into

the `--go_out` argument to protoc:

protoc --gogo_out=plugins=grpc:. *.proto

---

Extensions for Protocol Buffers to create more go like structures.

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or code.google.com/p/protobuf/trunk/src/
Its import is google/protobuf/descriptor.proto so it might need some help.
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package main

import (  
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 "github.com/gogo/protobuf/proto"
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)


func main() {
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        Type: proto.Int32(17),
        OptionalGroup: &example.Test_OptionalGroup {
            RequiredField: proto.String("good bye"),
        },
    }
    data, err := proto.Marshal(test)
    if err != nil {
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===============================================================================
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Consider file test.proto, containing

```proto
define enum FOO {
    X = 17;
}
```

package example;

enum FOO { X = 17; };
message Test {
  required string label = 1;
  optional int32 type = 2 [default=77];
  repeated int64 reps = 3;
  optional group OptionalGroup = 4 {
    required string RequiredField = 5;
  }
}

To create and play with a Test object from the example package,

package main

import (  
  "log"
  "github.com/gogo/protobuf/proto"
  "path/to/example"
)

func main() {
  test := &example.Test {
    Label: proto.String("hello"),
    Type: proto.Int32(17),
    OptionalGroup: &example.Test_OptionalGroup {
      RequiredField: proto.String("good bye"),
    },
  }
  data, err := proto.Marshal(test)
  if err != nil {
    log.Fatal("marshaling error: ", err)
  }
  newTest := &example.Test{
  }
  err = proto.Unmarshal(data, newTest)
  if err != nil {
    log.Fatal("unmarshaling error: ", err)
  }
  // Now test and newTest contain the same data.
  if test.GetLabel() != newTest.GetLabel() {
    log.Fatal("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
  }
  // etc.
}

gRPC Support

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If a proto file specifies RPC services, protoc-gen-go can be instructed to
generate code compatible with gRPC (http://www.grpc.io/). To do this, pass
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```
protoc --gogo_out=plugins=grpc:. *.proto
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Extensions for Protocol Buffers to create more go like structures.

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Go support for Protocol Buffers - Google's data interchange format

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See https://golang.org/doc/install for details or, if you are using gccgo, follow the instructions at https://golang.org/doc/install/gccgo
- Grab the code from the repository and install the proto package. The simplest way is to run
  `go get -u github.com/golang/protobuf/{proto,protoc-gen-go}`

The compiler plugin, protoc-gen-go, will be installed in $GOBIN, defaulting to $GOPATH/bin. It must be in your $PATH for the protocol compiler, protoc, to find it.

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First you must compile the protocol buffer definitions and then import them, with the support library, into your program.

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protoc --gogo_out=. -I=.:github.com/gogo/protobuf/protobuf *.proto

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    },
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if err != nil {
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---

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gogo.proto is located in github.com/gogo/protobuf/gogoproto
This should be fine, since your import is the same.
descriptor.proto is located in either github.com/gogo/protobuf/protobuf
or code.google.com/p/protobuf/trunk/src/
Its import is google/protobuf/descriptor.proto so it might need some help.

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Consider file test.proto, containing

package example;

enum FOO { X = 17; };

message Test {
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  optional int32 type = 2 [default=77];
  repeated int64 reps = 3;
  optional group OptionalGroup = 4 {
    required string RequiredField = 5;
  }
}

To create and play with a Test object from the example package,
package main

import (  
"log"  
"github.com/gogo/protobuf/proto"  
"path/to/example"
)

func main() {
    test := &example.Test {      
        Label: proto.String("hello"),      
        Type: proto.Int32(17),      
        OptionalGroup: &example.Test_OptionalGroup {      
            RequiredField: proto.String("good bye"),      
        },    
    }
    data, err := proto.Marshal(test)    
    if err != nil {
        log.Fatal("marshaling error: ", err)
    }
    newTest := &example.Test{}    
    err = proto.Unmarshal(data, newTest)    
    if err != nil {
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    }
    // Now test and newTest contain the same data.    
    if test.GetLabel() != newTest.GetLabel() {
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    }
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=============

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  The simplest way is to run
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package main

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  if err != nil {
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Consider file test.proto, containing

package example;

enum FOO { X = 17; };

message Test {
  required string label = 1;
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  repeated int64 reps = 3;
  optional group OptionalGroup = 4 {
    required string RequiredField = 5;
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To create and play with a Test object from the example package,

package main

import ( 
  "log"
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  "path/to/example"
)
func main() {
    test := &example.Test {
        Label: proto.String("hello"),
        Type:  proto.Int32(17),
        Optionalgroup: &example.Test_OptionalGroup {
            RequiredField: proto.String("good bye"),
        },
    }
    data, err := proto.Marshal(test)
    if err != nil {
        log.Fatal("marshaling error: ", err)
    }
    newTest := &example.Test{}
    err = proto.Unmarshal(data, newTest)
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--------------------------------------------------------------------------------
=Godeps/_workspace/src/github.com/gogo/protobuf/plugin/unmarshal licensed under: =

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    RequiredField: proto.String("good bye"),  
  },  
}  

data, err := proto.Marshal(test)  
if err != nil {  
  log.Fatal("marshaling error: ", err)  
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Consider file test.proto, containing

```protobuf
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enum FOO { X = 17; }

message Test {
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To create and play with a Test object from the example package,

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package main

import (
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func main() {
  test := &example.Test {
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    Type: proto.Int32(17),
    OptionalGroup: &example.Test_OptionalGroup {
      RequiredField: proto.String("good bye"),
    },
  }
  data, err := proto.Marshal(test)
  if err != nil {
```
log.Fatal("marshaling error: ", err)
}
newTest := &example.Test{}
err = proto.Unmarshal(data, newTest)
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==========

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wire format of protocol buffers. It works in concert with the
Go source code generated for .proto files by the protocol compiler.

A summary of the properties of the protocol buffer interface
for a protocol buffer variable $v$:

- Names are turned from camel_case to CamelCase for export.
- There are no methods on $v$ to set fields; just treat
  them as structure fields.
- There are getters that return a field's value if set,
  and return the field's default value if unset.
  The getters work even if the receiver is a nil message.
- The zero value for a struct is its correct initialization state.
  All desired fields must be set before marshaling.
- A Reset() method will restore a protobuf struct to its zero state.
- Non-repeated fields are pointers to the values; nil means unset.
  That is, optional or required field int32 $f$ becomes $F *$int32.
- Repeated fields are slices.
- Helper functions are available to aid the setting of fields.
  Helpers for getting values are superseded by the
  GetFoo methods and their use is deprecated.
  $msg.Foo = proto.String("hello")$ // set field
- Constants are defined to hold the default values of all fields that
  have them. They have the form Default_StructName_FieldName.
Because the getter methods handle defaulted values,
  direct use of these constants should be rare.
- Enums are given type names and maps from names to values.
  Enum values are prefixed with the enum's type name. Enum types have
  a String method, and a Enum method to assist in message construction.
- Nested groups and enums have type names prefixed with the name of
  the surrounding message type.
- Extensions are given descriptor names that start with E_,
  followed by an underscore-delimited list of the nested messages
  that contain it (if any) followed by the CamelCased name of the
  extension field itself. HasExtension, ClearExtension, GetExtension
  and SetExtension are functions for manipulating extensions.
- Oneof field sets are given a single field in their message,
  with distinguished wrapper types for each possible field value.
- Marshal and Unmarshal are functions to encode and decode the wire format.

Consider file test.proto, containing

```protobuf
defines packages:
  package example;

enum FOO { X = 17; }

message Test {
  required string label = 1;
  optional int32 type = 2 [default=77];
  repeated int64 reps = 3;
  optional group OptionalGroup = 4 {
    required string RequiredField = 5;
  }
}
```

To create and play with a Test object from the example package,

```go
package main

import (
  "log"
  "github.com/gogo/protobuf/proto"
  "path/to/example"
)

func main() {
  test := &example.Test {
    Label: proto.String("hello"),
    Type:  proto.Int32(17),
    OptionalGroup: &example.Test_OptionalGroup {
      RequiredField: proto.String("good bye"),
    },
  }
  data, err := proto.Marshal(test)
  if err != nil {
    log.Fatal("marshaling error: ", err)
  }
  newTest := &example.Test{}
  err = proto.Unmarshal(data, newTest)
  if err != nil {
    log.Fatal("unmarshaling error: ", err)
  }
  // Now test and newTest contain the same data.
  if test.GetLabel() != newTest.GetLabel() {
    log.Fatal("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
  }
}
```
gRPC Support

============

If a proto file specifies RPC services, protoc-gen-go can be instructed to generate code compatible with gRPC (http://www.grpc.io/). To do this, pass the `plugins` parameter to protoc-gen-go; the usual way is to insert it into the --go_out argument to protoc:

```bash
protoc --gogo_out=plugins=grpc:. *.proto
```

Extensions for Protocol Buffers to create more go like structures.

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http://github.com/gogo/protobuf/gogoproto

Go support for Protocol Buffers - Google's data interchange format

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https://github.com/golang/protobuf

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https://github.com/golang/protobuf

This package and the code it generates requires at least Go 1.4.

This software implements Go bindings for protocol buffers. For
information about protocol buffers themselves, see
https://developers.google.com/protocol-buffers/

## Installation ##

To use this software, you must:
- Install the standard C++ implementation of protocol buffers from
  https://developers.google.com/protocol-buffers/
- Of course, install the Go compiler and tools from
  https://golang.org/
  See
  https://golang.org/doc/install
  for details or, if you are using gccgo, follow the instructions at
  https://golang.org/doc/install/gccgo
- Grab the code from the repository and install the proto package.
  The simplest way is to run
go get -u github.com/golang/protobuf/{proto,protoc-gen-go}
The compiler plugin, protoc-gen-go, will be installed in $GOBIN,
  defaulting to $GOPATH/bin. It must be in your $PATH for the protocol
  compiler, protoc, to find it.

This software has two parts: a 'protocol compiler plugin' that
generates Go source files that, once compiled, can access and manage
protocol buffers; and a library that implements run-time support for
encoding (marshaling), decoding (unmarshaling), and accessing protocol
buffers.

There is support for gRPC in Go using protocol buffers.
See the note at the bottom of this file for details.

There are no insertion points in the plugin.

GoGoProtobuf provides extensions for protocol buffers and GoProtobuf
see http://github.com/gogo/protobuf/gogoprotoc/doc.go

## Using protocol buffers with Go ##
Once the software is installed, there are two steps to using it.

First you must compile the protocol buffer definitions and then import them, with the support library, into your program.

To compile the protocol buffer definition, run protoc with the --gogo_out parameter set to the directory you want to output the Go code to.

protoc --gogo_out=. *.proto

The generated files will be suffixed .pb.go. See the Test code below for an example using such a file.

The package comment for the proto library contains text describing the interface provided in Go for protocol buffers. Here is an edited version.

If you are using any gogo.proto extensions you will need to specify the proto_path to include the descriptor.proto and gogo.proto.
gogo.proto is located in github.com/gogo/protobuf/gogoproto
This should be fine, since your import is the same.
descriptor.proto is located in either github.com/gogo/protobuf/protobuf
or code.google.com/p/protobuf/trunk/src/
Its import is google/protobuf/descriptor.proto so it might need some help.

protoc --gogo_out=. -I=.:github.com/gogo/protobuf/protobuf *.proto

The proto package converts data structures to and from the wire format of protocol buffers. It works in concert with the Go source code generated for .proto files by the protocol compiler.

A summary of the properties of the protocol buffer interface for a protocol buffer variable v:

- Names are turned from camel_case to CamelCase for export.
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The getters work even if the receiver is a nil message.
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All desired fields must be set before marshaling.
- A Reset() method will restore a protobuf struct to its zero state.
- Non-repeated fields are pointers to the values; nil means unset.
That is, optional or required field int32 f becomes F *int32.
- Repeated fields are slices.
- Helper functions are available to aid the setting of fields.
Helpers for getting values are superseded by the GetFoo methods and their use is deprecated.

```go
google.protobuf.Parser.ParseFile(string) (*google.protobuf.FileDescriptorSet, error)
```

- Constants are defined to hold the default values of all fields that have them. They have the form Default_StructName_FieldName.

Because the getter methods handle defaulted values, direct use of these constants should be rare.

- Enums are given type names and maps from names to values. Enum values are prefixed with the enum's type name. Enum types have a String method, and a Enum method to assist in message construction.

- Nested groups and enums have type names prefixed with the name of the surrounding message type.

- Extensions are given descriptor names that start with E_, followed by an underscore-delimited list of the nested messages that contain it (if any) followed by the CamelCased name of the extension field itself. HasExtension, ClearExtension, GetExtension and SetExtension are functions for manipulating extensions.

- Oneof field sets are given a single field in their message, with distinguished wrapper types for each possible field value.

- Marshal and Unmarshal are functions to encode and decode the wire format.

Consider file test.proto, containing

```protobuf
generate go

package example;

enum FOO { X = 17; };

message Test {
  required string label = 1;
  optional int32 type = 2 [default=77];
  repeated int64 reps = 3;
  optional group OptionalGroup = 4 {
    required string RequiredField = 5;
  }
}
```

To create and play with a Test object from the example package,

```go
import (
  "log"
  "github.com/gogo/protobuf/proto"
  "path/to/example"
)

func main() {
  // Define a Test object
  test := &example.Test{
    Label: "Hello",
    Type: 100,
    Reps: []int64{1, 2, 3},
    OptionalGroup: &example.OptionalGroup{
      RequiredField: "Required Field",
    },
  }
  // Marshal to proto format
  b, err := proto.Marshal(test)
  if err != nil {
    log.Fatalf("Error: %v", err)
  }
  // Unmarshal to Test object
  var test2 example.Test
  err = proto.Unmarshal(b, &test2)
  if err != nil {
    log.Fatalf("Error: %v", err)
  }

  // Log the values
  log.Printf("Label: %s\nType: %d\nReps: %v\nRequiredField: %s\n", test.Label, test.Type, test.Reps, test2.OptionalGroup.RequiredField)
}
```
test := &example.Test{
    Label: proto.String("hello"),
    Type:  proto.Int32(17),
    OptionalGroup: &example.Test_OptionalGroup {
        RequiredField: proto.String("good bye"),
    },
}
data, err := proto.Marshal(test)
if err != nil {
    log.Fatal("marshaling error: ", err)
}
newTest := &example.Test{
}
err = proto.Unmarshal(data, newTest)
if err != nil {
    log.Fatal("unmarshaling error: ", err)
}
// Now test and newTest contain the same data.
if test.GetLabel() != newTest.GetLabel() {
    log.Fatalf("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
}
// etc.

---

**gRPC Support**

If a proto file specifies RPC services, protoc-gen-go can be instructed to generate code compatible with gRPC (http://www.grpc.io/). To do this, pass the `plugins` parameter to protoc-gen-go; the usual way is to insert it into the --go_out argument to protoc:

```
protoc --gogo_out=plugins=grpc:. *.proto
```

---

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    See https://golang.org/doc/install for details or, if you are using gccgo, follow the instructions at https://golang.org/doc/install/gccgo
- Grab the code from the repository and install the proto package.
    The simplest way is to run
go get -u github.com/golang/protobuf/[proto.protoc-gen-go]
The compiler plugin, protoc-gen-go, will be installed in $GOBIN,
defaulting to $GOPATH/bin. It must be in your $PATH for the protocol compiler, protoc, to find it.

This software has two parts: a 'protocol compiler plugin' that generates Go source files that, once compiled, can access and manage protocol buffers; and a library that implements run-time support for encoding (marshaling), decoding (unmarshaling), and accessing protocol buffers.

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## Using protocol buffers with Go ##

Once the software is installed, there are two steps to using it. First you must compile the protocol buffer definitions and then import them, with the support library, into your program.

To compile the protocol buffer definition, run protoc with the --gogo_out parameter set to the directory you want to output the Go code to.

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The generated files will be suffixed .pb.go. See the Test code below for an example using such a file.

The package comment for the proto library contains text describing the interface provided in Go for protocol buffers. Here is an edited version.

If you are using any gogo.proto extensions you will need to specify the proto_path to include the descriptor.proto and gogo.proto.

gogo.proto is located in github.com/gogo/protobuf/gogoproto

This should be fine, since your import is the same.

descriptor.proto is located in either github.com/gogo/protobuf/protobuf or code.google.com/p/protobuf/trunk/src/

Its import is google/protobuf/descriptor.proto so it might need some help.

protoc --gogo_out=. -I=.:github.com/gogo/protobuf/protobuf *.proto

============

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That is, optional or required field int32 f becomes F *int32.
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Helpers for getting values are superseded by the
GetFoo methods and their use is deprecated.
msg.Foo = proto.String("hello") // set field
  - Constants are defined to hold the default values of all fields that
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  - Nested groups and enums have type names prefixed with the name of
    the surrounding message type.
  - Extensions are given descriptor names that start with E_,
    followed by an underscore-delimited list of the nested messages
    that contain it (if any) followed by the CamelCased name of the
    extension field itself. HasExtension, ClearExtension, GetExtension
    and SetExtension are functions for manipulating extensions.
  - Oneof field sets are given a single field in their message,
    with distinguished wrapper types for each possible field value.
  - Marshal and Unmarshal are functions to encode and decode the wire format.

Consider file test.proto, containing

```proto
package example;

enum FOO { X = 17; }

message Test {
  required string label = 1;
}
```

To create and play with a Test object from the example package,

```go
package main

import (
    "log"
    "github.com/gogo/protobuf/proto"
    "path/to/example"
)

func main() {
    test := &example.Test {
        Label: proto.String("hello"),
        Type:  proto.Int32(17),
        Optionalgroup: &example.Test_OptionalGroup {
            RequiredField: proto.String("good bye"),
        },
    }
    data, err := proto.Marshal(test)
    if err != nil {
        log.Fatal("marshaling error: ", err)
    }
    newTest := &example.Test{
    }
    err = proto.Unmarshal(data, newTest)
    if err != nil {
        log.Fatal("unmarshaling error: ", err)
    }
    // Now test and newTest contain the same data.
    if test.GetLabel() != newTest.GetLabel() {
        log.Fatalf("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
    }
    // etc.
}
```

**gRPC Support**

If a proto file specifies RPC services, protoc-gen-go can be instructed to generate code compatible with gRPC (http://www.grpc.io/). To do this, pass the `plugins` parameter to protoc-gen-go; the usual way is to insert it into
the --go_out argument to protoc:

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Extensions for Protocol Buffers to create more go like structures.

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Go support for Protocol Buffers - Google's data interchange format

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This package and the code it generates requires at least Go 1.4.
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  See https://golang.org/doc/install for details or, if you are using gccgo, follow the instructions at https://golang.org/doc/install/gccgo
- Grab the code from the repository and install the proto package.
  
  The simplest way is to run
  
  go get -u github.com/golang/protobuf/{proto,protoc-gen-go}

  The compiler plugin, protoc-gen-go, will be installed in $GOBIN, defaulting to $GOPATH/bin. It must be in your $PATH for the protocol compiler, protoc, to find it.

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gogo.proto is located in github.com/gogo/protobuf/gogoproto
This should be fine, since your import is the same.
descriptor.proto is located in either github.com/gogo/protobuf/protobuf
or code.google.com/p/protobuf/trunk/src/
Its import is google/protobuf/descriptor.proto so it might need some help.

protoc --gogo_out= -I=.:github.com/gogo/protobuf/protobuf *.proto

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Consider file test.proto, containing

```protobuf
package example;

eenum FOO { X = 17; };

message Test {
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  optional int32 type = 2 [default=77];
  repeated int64 reps = 3;
  optional group OptionalGroup = 4 {
    required string RequiredField = 5;
  }
}
```

To create and play with a Test object from the example package,

```go
package main

import (  
  "log"  
  "github.com/gogo/protobuf/proto"  
  "path/to/example"
)

func main() {
  test := &example.Test {
    Label: proto.String("hello"),
    Type:  proto.Int32(17),
    OptionalGroup: &example.Test_OptionalGroup {
      RequiredField: proto.String("good bye"),
    },
  }
  data, err := proto.Marshal(test)
  if err != nil {
    log.Fatal("marshaling error: ", err)
  }
```
gRPC Support
============
If a proto file specifies RPC services, protoc-gen-go can be instructed to
generate code compatible with gRPC (http://www.grpc.io/). To do this, pass
the `plugins` parameter to protoc-gen-go; the usual way is to insert it into
the `--go_out` argument to protoc:

```
protoc --gogo_out=plugins=grpc:. *.proto
```

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https://github.com/golang/protobuf

This package and the code it generates requires at least Go 1.4.

This software implements Go bindings for protocol buffers. For information about protocol buffers themselves, see https://developers.google.com/protocol-buffers/

## Installation ##

To use this software, you must:
- Install the standard C++ implementation of protocol buffers from https://developers.google.com/protocol-buffers/
- Of course, install the Go compiler and tools from https://golang.org/
    See https://golang.org/doc/install for details or, if you are using gccgo, follow the instructions at https://golang.org/doc/install/gccgo
- Grab the code from the repository and install the proto package. The simplest way is to run `go get -u github.com/golang/protobuf/[proto,protoc-gen-go]`.
    The compiler plugin, protoc-gen-go, will be installed in $GOBIN, defaulting to $GOPATH/bin. It must be in your $PATH for the protocol compiler, protoc, to find it.

This software has two parts: a 'protocol compiler plugin' that
generates Go source files that, once compiled, can access and manage protocol buffers; and a library that implements run-time support for encoding (marshaling), decoding (unmarshaling), and accessing protocol buffers.

There is support for gRPC in Go using protocol buffers. See the note at the bottom of this file for details.

There are no insertion points in the plugin.

## Using protocol buffers with Go ##

Once the software is installed, there are two steps to using it. First you must compile the protocol buffer definitions and then import them, with the support library, into your program.

To compile the protocol buffer definition, run protoc with the --go_out parameter set to the directory you want to output the Go code to.

```bash
protoc --go_out=. *.proto
```

The generated files will be suffixed .pb.go. See the Test code below for an example using such a file.

The package comment for the proto library contains text describing the interface provided in Go for protocol buffers. Here is an edited version.

```{=md}
The proto package converts data structures to and from the wire format of protocol buffers. It works in concert with the Go source code generated for .proto files by the protocol compiler.

A summary of the properties of the protocol buffer interface for a protocol buffer variable v:

- Names are turned from camel_case to CamelCase for export.
- There are no methods on v to set fields; just treat them as structure fields.
- There are getters that return a field's value if set, and return the field's default value if unset. The getters work even if the receiver is a nil message.
- The zero value for a struct is its correct initialization state. All desired fields must be set before marshaling.
- A Reset() method will restore a protobuf struct to its zero state.
```
- Non-repeated fields are pointers to the values; nil means unset. That is, optional or required field int32 f becomes F *int32.
- Repeated fields are slices.
- Helper functions are available to aid the setting of fields.
Helpers for getting values are superseded by the
GetFoo methods and their use is deprecated.
msg.Foo = proto.String("hello") // set field
- Constants are defined to hold the default values of all fields that have them. They have the form Default_StructName_FieldName.
Because the getter methods handle defaulted values,
direct use of these constants should be rare.
- Enums are given type names and maps from names to values.
Enum values are prefixed with the enum's type name. Enum types have a String method, and a Enum method to assist in message construction.
- Nested groups and enums have type names prefixed with the name of the surrounding message type.
- Extensions are given descriptor names that start with E_, followed by an underscore-delimited list of the nested messages that contain it (if any) followed by the CamelCased name of the extension field itself. HasExtension, ClearExtension, GetExtension and SetExtension are functions for manipulating extensions.
- Oneof field sets are given a single field in their message, with distinguished wrapper types for each possible field value.
- Marshal and Unmarshal are functions to encode and decode the wire format.

When the .proto file specifies `syntax=proto3`, there are some differences:

- Non-repeated fields of non-message type are values instead of pointers.
- Getters are only generated for message and oneof fields.
- Enum types do not get an Enum method.

Consider file test.proto, containing
```proto
package example;

enum FOO { X = 17; };

message Test {
    required string label = 1;
    optional int32 type = 2 [default=77];
    repeated int64 reps = 3;
    optional group OptionalGroup = 4 {
        required string RequiredField = 5;
    }
}
```
To create and play with a Test object from the example package,

```go
package main

import {
        "log"

        "github.com/golang/protobuf/proto"
        "path/to/example"
    }

func main()
    test := &example.Test {
        Label: proto.String("hello"),
        Type:  proto.Int32(17),
        Reps:  []int64{1, 2, 3},
        Optionalgroup: &example.Test_OptionalGroup {
            RequiredField: proto.String("good bye"),
        },
    }
    data, err := proto.Marshal(test)
    if err != nil {
        log.Fatal("marshaling error: ", err)
    }
    newTest := &example.Test{}
    err = proto.Unmarshal(data, newTest)
    if err != nil {
        log.Fatal("unmarshaling error: ", err)
    }
    // Now test and newTest contain the same data.
    if test.GetLabel() != newTest.GetLabel() {
        log.Fatal("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
    }
    // etc.

## Parameters ##

To pass extra parameters to the plugin, use a comma-separated parameter list separated from the output directory by a colon:

```
protoc --go_out=plugins=grpc,import_path=mypackage:. *.proto
```

- `import_prefix=xxx` - a prefix that is added onto the beginning of
all imports. Useful for things like generating protos in a subdirectory, or regenerating vendored protobufs in-place.

- `import_path=foo/bar` - used as the package if no input files declare `go_package`. If it contains slashes, everything up to the rightmost slash is ignored.
- `plugins=plugin1+plugin2` - specifies the list of sub-plugins to load. The only plugin in this repo is `grpc`.
- `Mfoo/bar.proto=quux/shme` - declares that foo/bar.proto is associated with Go package quux/shme. This is subject to the import_prefix parameter.

## gRPC Support ##

If a proto file specifies RPC services, protoc-gen-go can be instructed to generate code compatible with gRPC (http://www.grpc.io/). To do this, pass the `plugins` parameter to protoc-gen-go; the usual way is to insert it into the --go_out argument to protoc:

```
protoc --go_out=plugins=grpc:. *.proto
```

---

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Gocheck - A rich testing framework for Go

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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Gocheck - A rich testing framework for Go

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Go support for Protocol Buffers - Google's data interchange format

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FUNCTIONS

func Negotiate(header string, alternatives []string) (content_type string)
Negotiate the most appropriate content_type given the accept header and a list of alternatives.

func ParseAccept(header string) (accept []Accept)
Parse an Accept Header string returning a sorted list of clauses

TYPES

type Accept struct {
    Type, SubType string
    Q        float32
    Params   map[string]string
}
Structure to represent a clause in an HTTP Accept Header

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Extensions for Protocol Buffers to create more go like structures.

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http://github.com/gogo/protobuf/gogoproto

Go support for Protocol Buffers - Google's data interchange format
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https://github.com/golang/protobuf

This package and the code it generates requires at least Go 1.4.

This software implements Go bindings for protocol buffers. For information about protocol buffers themselves, see https://developers.google.com/protocol-buffers/

### Installation

To use this software, you must:
- Install the standard C++ implementation of protocol buffers from https://developers.google.com/protocol-buffers/
- Of course, install the Go compiler and tools from https://golang.org/
  See https://golang.org/doc/install
for details or, if you are using gccego, follow the instructions at https://golang.org/doc/install/gccgo
- Grab the code from the repository and install the proto package.
  The simplest way is to run
  go get -u github.com/golang/protobuf/{proto,protoc-gen-go}
  The compiler plugin, protoc-gen-go, will be installed in $GOBIN,
  defaulting to $GOPATH/bin. It must be in your $PATH for the protocol
  compiler, protoc, to find it.

This software has two parts: a 'protocol compiler plugin' that
  generates Go source files that, once compiled, can access and manage
  protocol buffers; and a library that implements run-time support for
  encoding (marshaling), decoding (unmarshaling), and accessing protocol
  buffers.

There is support for gRPC in Go using protocol buffers.
See the note at the bottom of this file for details.

There are no insertion points in the plugin.

GoGoProtobuf provides extensions for protocol buffers and GoProtobuf
see http://github.com/gogo/protobuf/gogoproto/doc.go

## Using protocol buffers with Go ##

Once the software is installed, there are two steps to using it.
First you must compile the protocol buffer definitions and then import
  them, with the support library, into your program.

To compile the protocol buffer definition, run protoc with the --gogo_out
  parameter set to the directory you want to output the Go code to.

protoc --gogo_out=. *.proto

The generated files will be suffixed .pb.go. See the Test code below
  for an example using such a file.

The package comment for the proto library contains text describing
the interface provided in Go for protocol buffers. Here is an edited
version.

If you are using any gogo.proto extensions you will need to specify the
proto_path to include the descriptor.proto and gogo.proto.
gogo.proto is located in github.com/gogo/protobuf/gogoproto
  This should be fine, since your import is the same.
descriptor.proto is located in either github.com/gogo/protobuf/protobuf
  or code.google.com/p/protobuf/trunk/src/
  Its import is google/protobuf/descriptor.proto so it might need some help.
The proto package converts data structures to and from the wire format of protocol buffers. It works in concert with the Go source code generated for .proto files by the protocol compiler.

A summary of the properties of the protocol buffer interface for a protocol buffer variable v:

- Names are turned from camel_case to CamelCase for export.
- There are no methods on v to set fields; just treat them as structure fields.
- There are getters that return a field's value if set, and return the field's default value if unset. The getters work even if the receiver is a nil message.
- The zero value for a struct is its correct initialization state. All desired fields must be set before marshaling.
  - A Reset() method will restore a protobuf struct to its zero state.
  - Non-repeated fields are pointers to the values; nil means unset.
- That is, optional or required field int32 f becomes F *int32.
  - Repeated fields are slices.
  - Helper functions are available to aid the setting of fields.
Helpers for getting values are superseded by the GetFoo methods and their use is deprecated.
msg.Foo = proto.String("hello") // set field
- Constants are defined to hold the default values of all fields that have them. They have the form Default_StructName_FieldName. Because the getter methods handle defaulted values, direct use of these constants should be rare.
- Enums are given type names and maps from names to values. Enum values are prefixed with the enum's type name. Enum types have a String method, and a Enum method to assist in message construction.
- Nested groups and enums have type names prefixed with the name of the surrounding message type.
- Extensions are given descriptor names that start with E_, followed by an underscore-delimited list of the nested messages that contain it (if any) followed by the CamelCased name of the extension field itself. HasExtension, ClearExtension, GetExtension and SetExtension are functions for manipulating extensions.
  - Oneof field sets are given a single field in their message, with distinguished wrapper types for each possible field value.
  - Marshal and Unmarshal are functions to encode and decode the wire format.

Consider file test.proto, containing
package example;

enum FOO { X = 17; }

message Test {
  required string label = 1;
  optional int32 type = 2 [default=77];
  repeated int64 reps = 3;
  optional group OptionalGroup = 4 {
    required string RequiredField = 5;
  }
}

To create and play with a Test object from the example package,

package main

import (  
  "log"
  
  "github.com/gogo/protobuf/proto"
  "path/to/example"
)

func main() {
  test := &example.Test {
    Label: proto.String("hello"),
    Type: proto.Int32(17),
    Optionalgroup: &example.Test_OptionalGroup {
      RequiredField: proto.String("good bye"),
    },
  }

data, err := proto.Marshal(test)
  if err != nil {
    log.Fatal("marshaling error: ", err)
  }
  newTest := &example.Test{
    err = proto.Unmarshal(data, newTest)
    if err != nil {
      log.Fatal("unmarshaling error: ", err)
    }
    // Now test and newTest contain the same data.
    if test.GetLabel() != newTest.GetLabel() {
      log.Fatal("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
    }
    // etc.
  }
gRPC Support

If a proto file specifies RPC services, protoc-gen-go can be instructed to generate code compatible with gRPC (http://www.grpc.io/). To do this, pass the `plugins` parameter to protoc-gen-go; the usual way is to insert it into the `--go_out` argument to protoc:

```bash
protoc --gogo_out=plugins=grpc:. *.proto
```

Extensions for Protocol Buffers to create more go like structures.

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http://github.com/gogo/protobuf/gogoproto

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This package and the code it generates requires at least Go 1.4.

This software implements Go bindings for protocol buffers. For information about protocol buffers themselves, see https://developers.google.com/protocol-buffers/

## Installation ##

To use this software, you must:
- Install the standard C++ implementation of protocol buffers from https://developers.google.com/protocol-buffers/
- Of course, install the Go compiler and tools from https://golang.org/
  See https://golang.org/doc/install
  for details or, if you are using gccgo, follow the instructions at https://golang.org/doc/install/gccgo
- Grab the code from the repository and install the proto package.
  The simplest way is to run
  go get -u github.com/golang/protobuf/{proto,protoc-gen-go}
  The compiler plugin, protoc-gen-go, will be installed in $GOBIN,
  defaulting to $GOPATH/bin. It must be in your $PATH for the protocol
  compiler, protoc, to find it.

This software has two parts: a 'protocol compiler plugin' that generates Go source files that, once compiled, can access and manage protocol buffers; and a library that implements run-time support for encoding (marshaling), decoding (unmarshaling), and accessing protocol buffers.

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First you must compile the protocol buffer definitions and then import them, with the support library, into your program.
To compile the protocol buffer definition, run protoc with the --gogo_out parameter set to the directory you want to output the Go code to.

```
protoc --gogo_out=. *.proto
```

The generated files will be suffixed .pb.go. See the Test code below for an example using such a file.

The package comment for the proto library contains text describing the interface provided in Go for protocol buffers. Here is an edited version.

If you are using any gogo.proto extensions you will need to specify the proto_path to include the descriptor.proto and gogo.proto.

gogo.proto is located in github.com/gogo/protobuf/gogoproto
This should be fine, since your import is the same.
descriptor.proto is located in either github.com/gogo/protobuf/protobuf or code.google.com/p/protobuf/trunk/src/
Its import is google/protobuf/descriptor.proto so it might need some help.

```
protoc --gogo_out=. -I=.:github.com/gogo/protobuf/protobuf *.proto
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Consider file test.proto, containing

```protobuf
package example;

enum FOO { X = 17; }

message Test {
  required string label = 1;
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  optional group OptionalGroup = 4 {
    required string RequiredField = 5;
  }
}
```

To create and play with a Test object from the example package,

```go
package main

import (
  "log"
  "github.com/gogo/protobuf/proto"
  "path/to/example"
)

func main() {
  test := &example.Test {
    Label: proto.String("hello"),
    Type: proto.Int32(17),
    Optionalgroup: &example.Test_OptionalGroup {
```
```go
requiredField := proto.String("good bye"),
}
data, err := proto.Marshal(test)
if err != nil {
    log.Fatal("marshaling error: ", err)
}
newTest := &example.Test{
}
err = proto.Unmarshal(data, newTest)
if err != nil {
    log.Fatal("unmarshaling error: ", err)
}
// Now test and newTest contain the same data.
if test.GetLabel() != newTest.GetLabel() {
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}
// etc.
}

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```
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The compiler plugin, protoc-gen-go, will be installed in $GOBIN, defaulting to $GOPATH/bin. It must be in your $PATH for the protocol compiler, protoc, to find it.

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descriptor.proto is located in either github.com/gogo/protobuf/protobuf or code.google.com/p/protobuf/trunk/src/
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```

To create and play with a Test object from the example package,

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package main

import (
  "log"
  "github.com/gogo/protobuf/proto"
  "path/to/example"
)

func main() {
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    Label: proto.String("hello"),
    Type: proto.Int32(17),
    Optionalgroup: &example.Test_OptionalGroup {
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    },
    data, err := proto.Marshal(test)
    if err != nil {
      log.Fatal("marshaling error: ", err)
    }
    newTest := &example.Test{
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    if err != nil {
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Consider file test.proto, containing

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package example;

enum FOO { X = 17; }

text message Test {
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```

To create and play with a Test object from the example package,

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package main
import (  
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msg := testpb.Test{
  Label: "hello",
  Type: 77,
  Reps: []int64{1, 2, 3},
  RequiredField: "world"
}

log.Printf("msg: %v", msg)
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- Non-repeated fields are pointers to the values; nil means unset.
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- Oneof field sets are given a single field in their message, with distinguished wrapper types for each possible field value.
- Marshal and Unmarshal are functions to encode and decode the wire format.

Consider file test.proto, containing

```proto
class Example {
  int32 required_field;
  string optional_field = 2;
}
```

```
package example;
```
enum FOO { X = 17; }

message Test {
  required string label = 1;
  optional int32 type = 2 [default=77];
  repeated int64 reps = 3;
  optional group OptionalGroup = 4 {
    required string RequiredField = 5;
  }
}

To create and play with a Test object from the example package,

package main

import (  
  "log"  
  "github.com/gogo/protobuf/proto"  
  "path/to/example"
)

func main() {
  test := &example.Test {
    Label: proto.String("hello"),
    Type: proto.Int32(17),
    OptionalGroup: &example.Test_OptionalGroup {
      RequiredField: proto.String("good bye"),
    },
  }
  data, err := proto.Marshal(test)
  if err != nil {
    log.Fatal("marshaling error: ", err)
  }
  newTest := &example.Test{}
  err = proto.Unmarshal(data, newTest)
  if err != nil {
    log.Fatal("unmarshaling error: ", err)
  }
  // Now test and newTest contain the same data.
  if test.GetLabel() != newTest.GetLabel() {
    log.Fatal("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
  }
  // etc.
gRPC Support
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If a proto file specifies RPC services, protoc-gen-go can be instructed to generate code compatible with gRPC (http://www.grpc.io/). To do this, pass the ‘plugins’ parameter to protoc-gen-go; the usual way is to insert it into the --go_out argument to protoc:

```
protoc --gogo_out=plugins=grpc:. *.proto
```

== Godeps/_workspace/src/github.com/gogo/protobuf/plugin/license ===================================

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This package and the code it generates requires at least Go 1.4.

This software implements Go bindings for protocol buffers. For information about protocol buffers themselves, see https://developers.google.com/protocol-buffers/

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- Grab the code from the repository and install the proto package.
  
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  The compiler plugin, protoc-gen-go, will be installed in $GOBIN, defaulting to $GOPATH/bin. It must be in your $PATH for the protocol compiler, protoc, to find it.

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If you are using any gogo.proto extensions you will need to specify the proto_path to include the descriptor.proto and gogo.proto.

- gogo.proto is located in `github.com/gogo/protobuf/gogoprotod`  
- descriptor.proto is located in `github.com/gogo/protobuf/protobuf`  

This should be fine, since your import is the same.

- descriptor.proto is located in either `github.com/gogo/protobuf/protobuf`  
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Its import is `google/protobuf/descriptor.proto` so it might need some help.

`protoc --gogo_out=. -I=.:github.com/gogo/protobuf/protobuf *.proto`

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  }
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To create and play with a Test object from the example package,

```go
package main

import (  
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  "github.com/gogo/protobuf/protobuf"
  "path/to/example"
)

func main() {
  test := &example.Test {
    Label: proto.String("hello"),
    Type: proto.Int32(17),
    OptionalGroup: &example.Test_OptionalGroup {
      RequiredField: proto.String("good bye"),
```

```
data, err := proto.Marshal(test)
if err != nil {
    log.Fatal("marshaling error: ", err)
}
newTest := &example.Test{}
err = proto.Unmarshal(data, newTest)
if err != nil {
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// Now test and newTest contain the same data.
if test.GetLabel() != newTest.GetLabel() {
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}
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protoc --gogo_out=. -I=.github.com/gogo/protobuf/protobuf *.proto

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message Test {
  required string label = 1;
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  optional group OptionalGroup = 4 {
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}
To create and play with a Test object from the example package,

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import (  
  "log"

  "github.com/gogo/protobuf/proto"
  "path/to/example"
  
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func main() {  
  test := &example.Test {  
    Label: proto.String("hello"),  
    Type:  proto.Int32(17),  
    Optionalgroup: &example.Test_OptionalGroup {  
      RequiredField: proto.String("good bye"),  
    },  
  }  
  data, err := proto.Marshal(test)  
  if err != nil {  
    log.Fatal("marshaling error: ", err)  
  }  
  newTest := &example.Test{}  
  err = proto.Unmarshal(data, newTest)  
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  }  
  // Now test and newTest contain the same data.  
  if test.GetLabel() != newTest.GetLabel() {  
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  // etc.

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  if err != nil {
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  newTest := &example.Test{}
  err = proto.Unmarshal(data, newTest)
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  }
}
Open Source Used In Application Centric Infrastructure Service Engine (ACI-SE) 1.1

{ 
// Now test and newTest contain the same data.
if test.GetLabel() != newTest.GetLabel() {
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GoGoProtobuf provides extensions for protocol buffers and GoProtobuf
Once the software is installed, there are two steps to using it. First you must compile the protocol buffer definitions and then import them, with the support library, into your program.

To compile the protocol buffer definition, run protoc with the --gogo_out parameter set to the directory you want to output the Go code to.

protoc --gogo_out=. *.proto

The generated files will be suffixed .pb.go. See the Test code below for an example using such a file.

The package comment for the proto library contains text describing the interface provided in Go for protocol buffers. Here is an edited version.

If you are using any gogo.proto extensions you will need to specify the proto_path to include the descriptor.proto and gogo.proto.
gogo.proto is located in github.com/gogo/protobuf/gogoproto
This should be fine, since your import is the same.
descriptor.proto is located in either github.com/gogo/protobuf/protobuf or code.google.com/p/protobuf/trunk/src/
Its import is google/protobuf/descriptor.proto so it might need some help.

protoc --gogo_out=. -I=.:github.com/gogo/protobuf/protobuf *.proto

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A summary of the properties of the protocol buffer interface for a protocol buffer variable v:

- Names are turned from camel_case to CamelCase for export.
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The getters work even if the receiver is a nil message.
- The zero value for a struct is its correct initialization state.
All desired fields must be set before marshaling.
- A Reset() method will restore a protobuf struct to its zero state.
Non-repeated fields are pointers to the values; nil means unset. That is, optional or required field int32 f becomes F *int32.

Repeated fields are slices.

Helper functions are available to aid the setting of fields.

Helpers for getting values are superseded by the GetFoo methods and their use is deprecated.

msg.Foo = proto.String("hello") // set field

Constants are defined to hold the default values of all fields that have them. They have the form Default_StructName_FieldName.

Because the getter methods handle defaulted values, direct use of these constants should be rare.

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Enum values are prefixed with the enum’s type name. Enum types have a String method, and a Enum method to assist in message construction.

- Nested groups and enums have type names prefixed with the name of the surrounding message type.

- Extensions are given descriptor names that start with E_, followed by an underscore-delimited list of the nested messages that contain it (if any) followed by the CamelCased name of the extension field itself. HasExtension, ClearExtension, GetExtension and SetExtension are functions for manipulating extensions.

- Oneof field sets are given a single field in their message, with distinguished wrapper types for each possible field value.

- Marshal and Unmarshal are functions to encode and decode the wire format.

Consider file test.proto, containing

```protobuf
package example;

enum FOO { X = 17; }

message Test {
  required string label = 1;
  optional int32 type = 2 [default=77];
  repeated int64 reps = 3;
  optional group OptionalGroup = 4 {
    required string RequiredField = 5;
  }
}
```

To create and play with a Test object from the example package,

```go
package main

import (
  "log"
  "github.com/gogo/protobuf/proto"

```
func main() {
    test := &example.Test {
        Label: proto.String("hello"),
        Type: proto.Int32(17),
        OptionalGroup: &example.Test_OptionalGroup {
            RequiredField: proto.String("good bye"),
        },
    }
    data, err := proto.Marshal(test)
    if err != nil {
        log.Fatal("marshaling error: ", err)
    }
    newTest := &example.Test{}
    err = proto.Unmarshal(data, newTest)
    if err != nil {
        log.Fatal("unmarshaling error: ", err)
    }
    // Now test and newTest contain the same data.
    if test.GetLabel() != newTest.GetLabel() {
        log.Fatalf("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
    }
    // etc.
}

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If a proto file specifies RPC services, protoc-gen-go can be instructed to
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Extensions for Protocol Buffers to create more go like structures.

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http://github.com/gogo/protobuf/gogoproto

Go support for Protocol Buffers - Google's data interchange format

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https://github.com/golang/protobuf

This package and the code it generates requires at least Go 1.4.

This software implements Go bindings for protocol buffers. For information about protocol buffers themselves, see https://developers.google.com/protocol-buffers/

## Installation ##

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- Install the standard C++ implementation of protocol buffers from https://developers.google.com/protocol-buffers/
- Of course, install the Go compiler and tools from https://golang.org/
  See https://golang.org/doc/install
  for details or, if you are using gccgo, follow the instructions at https://golang.org/doc/install/gccgo
- Grab the code from the repository and install the proto package.
The simplest way is to run
go get -u github.com/golang/protobuf/{proto,protoc-gen-go}
The compiler plugin, protoc-gen-go, will be installed in $GOBIN,
defaulting to $GOPATH/bin. It must be in your $PATH for the protocol
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```bash
## Using protocol buffers with Go ##
```

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First you must compile the protocol buffer definitions and then import
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Its import is google/protobuf/descriptor.proto so it might need some help.

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A summary of the properties of the protocol buffer interface for a protocol buffer variable `v`:

- Names are turned from camel_case to CamelCase for export.
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- There are getters that return a field's value if set, and return the field's default value if unset. The getters work even if the receiver is a nil message.
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- Oneof field sets are given a single field in their message, with distinguished wrapper types for each possible field value.
- `Marshal` and `Unmarshal` are functions to encode and decode the wire format.

Consider file `test.proto`, containing

```proto
package example;
```
enum FOO { X = 17; };

message Test {
  required string label = 1;
  optional int32 type = 2 [default=77];
  repeated int64 reps = 3;
  optional group OptionalGroup = 4 {
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  }
}

To create and play with a Test object from the example package,

package main

import (
  "log"
  "github.com/gogo/protobuf/proto"
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)

func main() {
  test := &example.Test {
    Label: proto.String("hello"),
    Type: proto.Int32(17),
    OptionalGroup: &example.Test_OptionalGroup {
      RequiredField: proto.String("good bye"),
    },
  }
  data, err := proto.Marshal(test)
  if err != nil {
    log.Fatal("marshaling error: ", err)
  }
  newTest := &example.Test{
  }
  err = proto.Unmarshal(data, newTest)
  if err != nil {
    log.Fatal("unmarshaling error: ", err)
  }
  // Now test and newTest contain the same data.
  if test.GetLabel() != newTest.GetLabel() {
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  }
  // etc.
}

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- Grab the code from the repository and install the proto package.
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descriptor.proto is located in either github.com/gogo/protobuf/protobuf or code.google.com/p/protobuf/trunk/src/
Its import is google/protobuf/descriptor.proto so it might need some help.

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==========

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- Marshal and Unmarshal are functions to encode and decode the wire format.

Consider file test.proto, containing

package example;

eenum FOO { X = 17; }

message Test {
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  optional int32 type = 2 [default=77];
  repeated int64 reps = 3;
  optional group OptionalGroup = 4 {
    required string RequiredField = 5;
  }
}

To create and play with a Test object from the example package,

package main

import (  
  "log"
  
  "github.com/gogo/protobuf/proto"
  "path/to/example"
)

func main() {
  test := &example.Test {
    Label: proto.String("hello"),
    Type: proto.Int32(17),
    OptionalGroup: &example.Test_OptionalGroup {
      RequiredField: proto.String("good bye"),
    },
  }
data, err := proto.Marshal(test)
if err != nil {
    log.Fatal("marshaling error: ", err)
}

newTest := &example.Test{}
err = proto.Unmarshal(data, newTest)
if err != nil {
    log.Fatal("unmarshaling error: ", err)
}

// Now test and newTest contain the same data.
if test.GetLabel() != newTest.GetLabel() {
    log.Fatalf("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
}

// etc.

---

**gRPC Support**

---

If a proto file specifies RPC services, protoc-gen-go can be instructed to generate code compatible with gRPC (http://www.grpc.io/). To do this, pass the ‘plugins’ parameter to protoc-gen-go; the usual way is to insert it into the --go_out argument to protoc:

```
protoc --gogo_out=plugins=grpc:. *.proto
```

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Extensions for Protocol Buffers to create more go like structures.

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- Install the standard C++ implementation of protocol buffers from
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See
https://golang.org/doc/install
for details or, if you are using gccgo, follow the instructions at
https://golang.org/doc/install/gccgo
- Grab the code from the repository and install the proto package.
The simplest way is to run
go get -u github.com/golang/protobuf/[proto.protoc-gen-go]
The compiler plugin, protoc-gen-go, will be installed in $GOBIN,
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  optional group OptionalGroup = 4 {
    required string RequiredField = 5;
  }
}
```
To create and play with a Test object from the example package,

```go
package main

import (  
    "log"
    
    "github.com/gogo/protobuf/proto"
    "path/to/example"
)

func main() {  
    test := &example.Test {  
        Label: proto.String("hello"),  
        Type:  proto.Int32(17),  
        Optionalgroup: &example.Test_OptionalGroup {  
            RequiredField: proto.String("good bye"),  
        },  
    }  
    data, err := proto.Marshal(test)  
    if err != nil {  
        log.Fatal("marshaling error: ", err)  
    }  
    newTest := &example.Test{}  
    err = proto.Unmarshal(data, newTest)  
    if err != nil {  
        log.Fatal("unmarshaling error: ", err)  
    }  
    // Now test and newTest contain the same data.  
    if test.GetLabel() != newTest.GetLabel() {  
        log.Fatalf("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())  
    }  
    // etc.
}
```

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```sh
protoc --go_out=plugins=grpc:. *.proto
```

================================================================================

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  https://golang.org/
  See
  https://golang.org/doc/install
  for details or, if you are using gccgo, follow the instructions at
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- Grab the code from the repository and install the proto package.
  The simplest way is to run
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The compiler plugin, protoc-gen-go, will be installed in $GOBIN,
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  First you must compile the protocol buffer definitions and then import
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To create and play with a Test object from the example package,

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package main

import (
  "log"
  "github.com/gogo/protobuf/proto"
  "path/to/example"
)

func main() {
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    OptionalGroup: &example.Test_OptionalGroup {
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    },
  }
  data, err := proto.Marshal(test)
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  }
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Go support for Protocol Buffers - Google's data interchange format

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If you are using any gogo.proto extensions you will need to specify the `proto_path` to include the descriptor.proto and gogo.proto.

gogo.proto is located in `github.com/gogo/protobuf/gogoproto`

This should be fine, since your import is the same.

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    if err != nil {
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    }
    // etc.
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```
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newTest := &example.Test{}
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if test.GetLabel() != newTest.GetLabel() {
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---

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        Label: proto.String("hello"),
        Type:  proto.Int32(17),
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            RequiredField: proto.String("good bye"),
        },
    }
    data, err := proto.Marshal(test)
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    }
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==============================================================================
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descriptor.proto is located in either github.com/gogo/protobuf/protobuf
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protoc --gogo_out=. -I=.github.com/gogo/protobuf/protobuf *.proto

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    },
  }
  data, err := proto.Marshal(test)
  if err != nil {
    log.Fatal("marshaling error: ", err)
  }
  newTest := &example.Test{}
  err = proto.Unmarshal(data, newTest)
  if err != nil {
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  }
  // Now test and newTest contain the same data.
```
if test.GetLabel() != newTest.GetLabel() {
    log.Fatalf("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
} // etc.

---

```go
protoc --gogo_out=plugins=grpc:. *.proto
```

---

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    log.Fatal("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
  }
  // etc.
}

// gRPC Support

gRPC Support

============

If a proto file specifies RPC services, protoc-gen-go can be instructed to
generate code compatible with gRPC (http://www.grpc.io/). To do this, pass the `plugins` parameter to protoc-gen-go; the usual way is to insert it into the --go_out argument to protoc:

```
protoc --gogo_out=plugins=grpc:. *.proto
```

Extensions for Protocol Buffers to create more go like structures.

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http://github.com/gogo/protobuf/gogoproto

Go support for Protocol Buffers - Google's data interchange format

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https://github.com/golang/protobuf
This package and the code it generates requires at least Go 1.4.

This software implements Go bindings for protocol buffers. For information about protocol buffers themselves, see https://developers.google.com/protocol-buffers/

## Installation ##

To use this software, you must:
- Install the standard C++ implementation of protocol buffers from https://developers.google.com/protocol-buffers/
- Of course, install the Go compiler and tools from https://golang.org/
  
See https://golang.org/doc/install for details or, if you are using gccgo, follow the instructions at https://golang.org/doc/install/gccgo
- Grab the code from the repository and install the proto package.
  
The simplest way is to run
  
```
go get -u github.com/golang/protobuf/{proto,protoc-gen-go}
```
  
The compiler plugin, protoc-gen-go, will be installed in $GOBIN, defaulting to $GOPATH/bin. It must be in your $PATH for the protocol compiler, protoc, to find it.

This software has two parts: a 'protocol compiler plugin' that generates Go source files that, once compiled, can access and manage protocol buffers; and a library that implements run-time support for encoding (marshaling), decoding (unmarshaling), and accessing protocol buffers.

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See the note at the bottom of this file for details.

There are no insertion points in the plugin.

GoGoProtobuf provides extensions for protocol buffers and GoProtobuf see http://github.com/gogo/protobuf/gogoproto/doc.go

## Using protocol buffers with Go ##

Once the software is installed, there are two steps to using it.
First you must compile the protocol buffer definitions and then import them, with the support library, into your program.

To compile the protocol buffer definition, run protoc with the --gogo_out parameter set to the directory you want to output the Go code to.

```
protoc --gogo_out=. *.proto
```
The generated files will be suffixed .pb.go. See the Test code below for an example using such a file.

The package comment for the proto library contains text describing the interface provided in Go for protocol buffers. Here is an edited version.

If you are using any gogo.proto extensions you will need to specify the proto_path to include the descriptor.proto and gogo.proto.
gogo.proto is located in github.com/gogo/protobuf/gogoproto
This should be fine, since your import is the same.
descriptor.proto is located in either github.com/gogo/protobuf/protobuf or code.google.com/p/protobuf/trunk/src/
Its import is google/protobuf/descriptor.proto so it might need some help.

protoc --gogo_out=. -I=.:github.com/gogo/protobuf/protobuf *.proto

==========

The proto package converts data structures to and from the wire format of protocol buffers. It works in concert with the Go source code generated for .proto files by the protocol compiler.

A summary of the properties of the protocol buffer interface for a protocol buffer variable v:

- Names are turned from camel_case to CamelCase for export.
- There are no methods on v to set fields; just treat them as structure fields.
- There are getters that return a field's value if set, and return the field's default value if unset.
The getters work even if the receiver is a nil message.
- The zero value for a struct is its correct initialization state.
  All desired fields must be set before marshaling.
- A Reset() method will restore a protobuf struct to its zero state.
- Non-repeated fields are pointers to the values; nil means unset.

That is, optional or required field int32 f becomes F *int32.
- Repeated fields are slices.
- Helper functions are available to aid the setting of fields.
Helpers for getting values are superseded by the
GetFoo methods and their use is deprecated.
msg.Foo = proto.String("hello") // set field
- Constants are defined to hold the default values of all fields that have them. They have the form Default_StructName_FieldName.
Because the getter methods handle defaulted values, direct use of these constants should be rare.
- Enums are given type names and maps from names to values.
Enum values are prefixed with the enum's type name. Enum types have a String method, and a Enum method to assist in message construction.
- Nested groups and enums have type names prefixed with the name of the surrounding message type.
- Extensions are given descriptor names that start with E_, followed by an underscore-delimited list of the nested messages that contain it (if any) followed by the CamelCased name of the extension field itself. HasExtension, ClearExtension, GetExtension and SetExtension are functions for manipulating extensions.
- Oneof field sets are given a single field in their message, with distinguished wrapper types for each possible field value.
- Marshal and Unmarshal are functions to encode and decode the wire format.

Consider file test.proto, containing

```protobuf
google.protobuf.Enum FOO { X = 17; }

message Test {
  required string label = 1;
  optional int32 type = 2 [default=77];
  repeated int64 reps = 3;
  optional group OptionalGroup = 4 {
    required string RequiredField = 5;
  }
}
```

To create and play with a Test object from the example package,

```go
package main

import (
  "log"
  "github.com/gogo/protobuf/proto"
  "path/to/example"
)

func main() {
  test := &example.Test {
    Label: proto.String("hello"),
    Type: proto.Int32(17),
    OptionalGroup: &example.Test_OptionalGroup {
      RequiredField: proto.String("good bye"),
    },
  }
  data, err := proto.Marshal(test)
```
if err != nil {
    log.Fatal("marshaling error: ", err)
}
newTest := &example.Test{}
err = proto.Unmarshal(data, newTest)
if err != nil {
    log.Fatal("unmarshaling error: ", err)
}
// Now test and newTest contain the same data.
if test.GetLabel() != newTest.GetLabel() {
    log.Fatalf("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
}
// etc.

---

**gRPC Support**

If a proto file specifies RPC services, protoc-gen-go can be instructed to generate code compatible with gRPC (http://www.grpc.io/). To do this, pass the `plugins` parameter to protoc-gen-go; the usual way is to insert it into the `--go_out` argument to protoc:

```
protoc --gogo_out=plugins=grpc:. *.proto
```

---

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This package and the code it generates requires at least Go 1.4.

This software implements Go bindings for protocol buffers. For information about protocol buffers themselves, see https://developers.google.com/protocol-buffers/

## Installation ##

To use this software, you must:
- Install the standard C++ implementation of protocol buffers from https://developers.google.com/protocol-buffers/
- Of course, install the Go compiler and tools from https://golang.org/
  See https://golang.org/doc/install
  for details or, if you are using gccgo, follow the instructions at https://golang.org/doc/install/gccgo
- Grab the code from the repository and install the proto package.
  The simplest way is to run
go get -u github.com/golang/protobuf/{proto,protoc-gen-go}
The compiler plugin, protoc-gen-go, will be installed in $GOBIN, defaulting to $GOPATH/bin. It must be in your $PATH for the protocol compiler, protoc, to find it.

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## Using protocol buffers with Go ##

Once the software is installed, there are two steps to using it. First you must compile the protocol buffer definitions and then import them, with the support library, into your program.

To compile the protocol buffer definition, run protoc with the --gogo_out parameter set to the directory you want to output the Go code to.

protoc --gogo_out=. *.proto

The generated files will be suffixed .pb.go. See the Test code below for an example using such a file.

The package comment for the proto library contains text describing the interface provided in Go for protocol buffers. Here is an edited version.

If you are using any gogo.proto extensions you will need to specify the proto_path to include the descriptor.proto and gogo.proto.

gogo.proto is located in github.com/gogo/protobuf/gogoproto
This should be fine, since your import is the same.
descriptor.proto is located in either github.com/gogo/protobuf/protobuf or code.google.com/p/protobuf/trunk/src/
Its import is google/protobuf/descriptor.proto so it might need some help.

protoc --gogo_out=. -I=:.github.com/gogo/protobuf/protobuf *.proto

==========

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A summary of the properties of the protocol buffer interface for a protocol buffer variable v:

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- A Reset() method will restore a protobuf struct to its zero state.
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That is, optional or required field int32 f becomes F *int32.
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- Helper functions are available to aid the setting of fields.
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GetFoo methods and their use is deprecated.
msg.Foo = proto.String("hello") // set field
- Constants are defined to hold the default values of all fields that
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direct use of these constants should be rare.
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Enum values are prefixed with the enum's type name. Enum types have
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- Nested groups and enums have type names prefixed with the name of
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- Extensions are given descriptor names that start with E_,
  followed by an underscore-delimited list of the nested messages
  that contain it (if any) followed by the CamelCased name of the
  extension field itself. HasExtension, ClearExtension, GetExtension
  and SetExtension are functions for manipulating extensions.
- Oneof field sets are given a single field in their message,
  with distinguished wrapper types for each possible field value.
- Marshal and Unmarshal are functions to encode and decode the wire format.

Consider file test.proto, containing

```protobuf
class example {
  enum FOO { X = 17; };

  message Test {
    required string label = 1;
    optional int32 type = 2 [default=77];
    repeated int64 reps = 3;
    optional group OptionalGroup = 4 {
      required string RequiredField = 5;
    }
  }
}
```

To create and play with a Test object from the example package,
package main

import (
    "log"

    "github.com/gogo/protobuf/proto"
    "path/to/example"
)

func main() {
    test := &example.Test {
        Label: proto.String("hello"),
        Type: proto.Int32(17),
        OptionalGroup: &example.Test_OptionalGroup {
            RequiredField: proto.String("good bye"),
        },
    }
    data, err := proto.Marshal(test)
    if err != nil {
        log.Fatal("marshaling error: ", err)
    }
    newTest := &example.Test{}
    err = proto.Unmarshal(data, newTest)
    if err != nil {
        log.Fatal("unmarshaling error: ", err)
    }
    // Now test and newTest contain the same data.
    if test.GetLabel() != newTest.GetLabel() {
        log.Fatalf("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
    }
    // etc.
}

gRPC Support
=============  
If a proto file specifies RPC services, protoc-gen-go can be instructed to generate code compatible with gRPC (http://www.grpc.io/). To do this, pass the `plugins` parameter to protoc-gen-go; the usual way is to insert it into the --go_out argument to protoc:

    protoc --gogo_out=plugins=grpc:. *.proto

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Go support for Protocol Buffers - Google's data interchange format

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https://github.com/golang/protobuf

This package and the code it generates requires at least Go 1.4.

This software implements Go bindings for protocol buffers. For
information about protocol buffers themselves, see https://developers.google.com/protocol-buffers/

## Installation ##

To use this software, you must:
- Install the standard C++ implementation of protocol buffers from https://developers.google.com/protocol-buffers/
- Of course, install the Go compiler and tools from https://golang.org/
  
  See https://golang.org/doc/install for details or, if you are using gccgo, follow the instructions at https://golang.org/doc/install/gccgo
- Grab the code from the repository and install the proto package. The simplest way is to run `go get -u github.com/golang/protobuf/{proto,protoc-gen-go}`. The compiler plugin, protoc-gen-go, will be installed in $GOBIN, defaulting to $GOPATH/bin. It must be in your $PATH for the protocol compiler, protoc, to find it.

This software has two parts: a 'protocol compiler plugin' that generates Go source files that, once compiled, can access and manage protocol buffers; and a library that implements run-time support for encoding (marshaling), decoding (unmarshaling), and accessing protocol buffers.

There is support for gRPC in Go using protocol buffers. See the note at the bottom of this file for details.

There are no insertion points in the plugin.

## Using protocol buffers with Go ##

Once the software is installed, there are two steps to using it. First you must compile the protocol buffer definitions and then import them, with the support library, into your program.

To compile the protocol buffer definition, run protoc with the --go_out parameter set to the directory you want to output the Go code to.

```
protoc --go_out=. *.proto
```

The generated files will be suffixed .pb.go. See the Test code below for an example using such a file.

The package comment for the proto library contains text describing
the interface provided in Go for protocol buffers. Here is an edited version.

-------------

The proto package converts data structures to and from the wire format of protocol buffers. It works in concert with the Go source code generated for .proto files by the protocol compiler.

A summary of the properties of the protocol buffer interface for a protocol buffer variable v:

- Names are turned from camel_case to CamelCase for export.
- There are no methods on v to set fields; just treat them as structure fields.
- There are getters that return a field's value if set, and return the field's default value if unset.
  The getters work even if the receiver is a nil message.
- The zero value for a struct is its correct initialization state.
  All desired fields must be set before marshaling.
  - A Reset() method will restore a protobuf struct to its zero state.
  - Non-repeated fields are pointers to the values; nil means unset.
  That is, optional or required field int32 f becomes F *int32.
  - Repeated fields are slices.
  - Helper functions are available to aid the setting of fields.
  Helpers for getting values are superseded by the GetFoo methods and their use is deprecated.
    msg.Foo = proto.String("hello") // set field
  - Constants are defined to hold the default values of all fields that have them. They have the form Default_StructName_FieldName.
    Because the getter methods handle defaulted values, direct use of these constants should be rare.
  - Enums are given type names and maps from names to values.
    Enum values are prefixed with the enum's type name. Enum types have a String method, and a Enum method to assist in message construction.
  - Nested groups and enums have type names prefixed with the name of the surrounding message type.
  - Extensions are given descriptor names that start with E_, followed by an underscore-delimited list of the nested messages that contain it (if any) followed by the CamelCased name of the extension field itself. HasExtension, ClearExtension, GetExtension and SetExtension are functions for manipulating extensions.
  - Oneof field sets are given a single field in their message, with distinguished wrapper types for each possible field value.
  - Marshal and Unmarshal are functions to encode and decode the wire format.

When the .proto file specifies `syntax="proto3"`, there are some differences:
- Non-repeated fields of non-message type are values instead of pointers.
- Getters are only generated for message and oneof fields.
- Enum types do not get an Enum method.

Consider file test.proto, containing

```proto
package example;

enum FOO { X = 17; }

message Test {
  required string label = 1;
  optional int32 type = 2 [default=77];
  repeated int64 reps = 3;
  optional group OptionalGroup = 4 {
    required string RequiredField = 5;
  }
}
...
```

To create and play with a Test object from the example package,

```go
package main

import (
  "log"
  "github.com/golang/protobuf/protobuf"
  "path/to/example"
)

func main() {
  test := &example.Test {
    Label: proto.String("hello"),
    Type: proto.Int32(17),
    Reps: []int64{1, 2, 3},
    OptionalGroup: &example.Test_OptionalGroup {
      RequiredField: proto.String("good bye"),
    },
  }
  data, err := proto.Marshal(test)
  if err != nil {
    log.Fatal("marshaling error: ", err)
  }
  newTest := &example.Test{}
  err = proto.Unmarshal(data, newTest)
  ```
if err != nil {
    log.Fatal("unmarshaling error: ", err)
}

// Now test and newTest contain the same data.
if test.GetLabel() != newTest.GetLabel() {
    log.Fatalf("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
}

// etc.

## Parameters ##

To pass extra parameters to the plugin, use a comma-separated parameter list separated from the output directory by a colon:

```
protoc --go_out=plugins=grpc,import_path=mypackage:. *.proto
```

- `import_prefix=xxx` - a prefix that is added onto the beginning of all imports. Useful for things like generating protos in a subdirectory, or regenerating vendored protobufs in-place.
- `import_path=foo/bar` - used as the package if no input files declare `go_package`. If it contains slashes, everything up to the rightmost slash is ignored.
- `plugins=plugin1+plugin2` - specifies the list of sub-plugins to load. The only plugin in this repo is `grpc`.
- `Mfoo/bar.proto=quux/shme` - declares that foo/bar.proto is associated with Go package quux/shme. This is subject to the import_prefix parameter.

## gRPC Support ##

If a proto file specifies RPC services, protoc-gen-go can be instructed to generate code compatible with gRPC (http://www.grpc.io/). To do this, pass the `plugins` parameter to protoc-gen-go; the usual way is to insert it into the --go_out argument to protoc:

```
protoc --go_out=plugins=grpc:. *.proto
```

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FUNCTIONS
func Negotiate(header string, alternatives []string) (content_type string)
Negotiate the most appropriate content_type given the accept header
and a list of alternatives.

func ParseAccept(header string) (accept []Accept)
Parse an Accept Header string returning a sorted list
of clauses

TYPES

type Accept struct {
    Type, SubType string
    Q    float32
    Params map[string]string
}
Structure to represent a clause in an HTTP Accept Header

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================================================================================

Extensions for Protocol Buffers to create more go like structures.

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http://github.com/gogo/protobuf/gogoprotos

Go support for Protocol Buffers - Google's data interchange format

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https://github.com/golang/protobuf

This package and the code it generates requires at least Go 1.4.

This software implements Go bindings for protocol buffers. For information about protocol buffers themselves, see https://developers.google.com/protocol-buffers/

### Installation ###

To use this software, you must:
- Install the standard C++ implementation of protocol buffers from https://developers.google.com/protocol-buffers/
- Of course, install the Go compiler and tools from https://golang.org/
  See https://golang.org/doc/install for details or, if you are using gccgo, follow the instructions at https://golang.org/doc/install/gccgo
- Grab the code from the repository and install the proto package. The simplest way is to run
go get -u github.com/golang/protobuf/{proto,protoc-gen-go}
  The compiler plugin, protoc-gen-go, will be installed in $GOBIN, defaulting to $GOPATH/bin. It must be in your $PATH for the protocol compiler, protoc, to find it.

This software has two parts: a 'protocol compiler plugin' that generates Go source files that, once compiled, can access and manage protocol buffers; and a library that implements run-time support for encoding (marshaling), decoding (unmarshaling), and accessing protocol buffers.

There is support for gRPC in Go using protocol buffers. See the note at the bottom of this file for details.

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GoGoProtobuf provides extensions for protocol buffers and GoProtobuf see http://github.com/gogo/protobuf/gogoproto/doc.go

### Using protocol buffers with Go ###

Once the software is installed, there are two steps to using it.
First you must compile the protocol buffer definitions and then import them, with the support library, into your program.

To compile the protocol buffer definition, run protoc with the --gogo_out parameter set to the directory you want to output the Go code to.

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protoc --gogo_out=. *.proto
```

The generated files will be suffixed .pb.go. See the Test code below for an example using such a file.

The package comment for the proto library contains text describing the interface provided in Go for protocol buffers. Here is an edited version.

If you are using any gogo.proto extensions you will need to specify the proto_path to include the descriptor.proto and gogo.proto.

gogo.proto is located in github.com/gogo/protobuf/gogoproto
This should be fine, since your import is the same.
descriptor.proto is located in either github.com/gogo/protobuf/protobuf or code.google.com/p/protobuf/trunk/src/
Its import is google/protobuf/descriptor.proto so it might need some help.

```
protoc --gogo_out=. -I=.:github.com/gogo/protobuf/protobuf *.proto
```

```
The proto package converts data structures to and from the wire format of protocol buffers. It works in concert with the Go source code generated for .proto files by the protocol compiler.

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- Names are turned from camel_case to CamelCase for export.
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The getters work even if the receiver is a nil message.
- The zero value for a struct is its correct initialization state.
All desired fields must be set before marshaling.
- A Reset() method will restore a protobuf struct to its zero state.
- Non-repeated fields are pointers to the values; nil means unset.
That is, optional or required field int32 f becomes F *int32.
- Repeated fields are slices.
- Helper functions are available to aid the setting of fields.
Helpers for getting values are superseded by the
GetFoo methods and their use is deprecated.
msg.Foo = proto.String("hello") // set field

- Constants are defined to hold the default values of all fields that have them. They have the form Default_StructName_FieldName. Because the getter methods handle defaulted values, direct use of these constants should be rare.

- Enums are given type names and maps from names to values. Enum values are prefixed with the enum's type name. Enum types have a String method, and a Enum method to assist in message construction.

- Nested groups and enums have type names prefixed with the name of the surrounding message type.

- Extensions are given descriptor names that start with E_. followed by an underscore-delimited list of the nested messages that contain it (if any) followed by the CamelCased name of the extension field itself. HasExtension, ClearExtension, GetExtension and SetExtension are functions for manipulating extensions.

- Oneof field sets are given a single field in their message, with distinguished wrapper types for each possible field value.

- Marshal and Unmarshal are functions to encode and decode the wire format.

Consider file test.proto, containing

```protobuf
test.proto

package example;

enum FOO { X = 17; };  
message Test {
  required string label = 1;
  optional int32 type = 2 [default=77];
  repeated int64 reps = 3;
  optional group OptionalGroup = 4 {
    required string RequiredField = 5;
  }
}

```

To create and play with a Test object from the example package,

```go
package main

import (  "log"
    "github.com/gogo/protobuf/proto"
    "path/to/example"
)

func main() {
  test := &example.Test {
```
Label: proto.String("hello"),
Type: proto.Int32(17),
OptionalGroup: &example.Test_OptionalGroup {
  RequiredField: proto.String("good bye"),
},
}
data, err := proto.Marshal(test)
if err != nil {
  log.Fatal("marshaling error: ", err)
}
newTest := &example.Test{
}
err = proto.Unmarshal(data, newTest)
if err != nil {
  log.Fatal("unmarshaling error: ", err)
}
// Now test and newTest contain the same data.
if test.GetLabel() != newTest.GetLabel() {
  log.Fatalf("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
}
// etc.
}

gRPC Support
=============  
If a proto file specifies RPC services, protoc-gen-go can be instructed to

generate code compatible with gRPC (http://www.grpc.io/). To do this, pass
the `plugins` parameter to protoc-gen-go; the usual way is to insert it into
the `--go_out` argument to protoc:

```plaintext
protoc --gogo_out=plugins=grpc:. *.proto
```

=================================================================
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- Grab the code from the repository and install the proto package. The simplest way is to run
go get -u github.com/golang/protobuf/[proto,protoc-gen-go]
  The compiler plugin, protoc-gen-go, will be installed in $GOPATH, defaulting to $GOPATH/bin. It must be in your $PATH for the protocol
This software has two parts: a 'protocol compiler plugin' that generates Go source files that, once compiled, can access and manage protocol buffers; and a library that implements run-time support for encoding (marshaling), decoding (unmarshaling), and accessing protocol buffers.

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## Using protocol buffers with Go ##

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The generated files will be suffixed .pb.go. See the Test code below for an example using such a file.

The package comment for the proto library contains text describing the interface provided in Go for protocol buffers. Here is an edited version.

If you are using any gogo.proto extensions you will need to specify the proto_path to include the descriptor.proto and gogo.proto. gogo.proto is located in github.com/gogo/protobuf/gogoproto. This should be fine, since your import is the same. descriptor.proto is located in either github.com/gogo/protobuf/protobuf or code.google.com/p/protobuf/trunk/src/ Its import is google/protobuf/descriptor.proto so it might need some help.

protoc --gogo_out= -I=.:github.com/gogo/protobuf/protobuf *.proto

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  msg.Foo = proto.String("hello") // set field
  - Constants are defined to hold the default values of all fields that
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  - Extensions are given descriptor names that start with E_
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Consider file test.proto, containing

    package example;

    enum FOO { X = 17; }

    message Test {
      required string label = 1;
      optional int32 type = 2 [default=77];
    }
repeated int64 reps = 3;
optional group OptionalGroup = 4 {
  required string RequiredField = 5;
}

To create and play with a Test object from the example package,

```go
package main

import (
  "log"

  "github.com/gogo/protobuf/proto"
  "path/to/example"
)

func main() {
  test := &example.Test {
    Label: proto.String("hello"),
    Type:  proto.Int32(17),
    OptionalGroup: &example.Test_OptionalGroup {
      RequiredField: proto.String("good bye"),
    },
  }
  data, err := proto.Marshal(test)
  if err != nil {
    log.Fatal("marshaling error: ", err)
  }
  newTest := &example.Test{}
  err = proto.Unmarshal(data, newTest)
  if err != nil {
    log.Fatal("unmarshaling error: ", err)
  }
  // Now test and newTest contain the same data.
  if test.GetLabel() != newTest.GetLabel() {
    log.Fatal("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
  }
  // etc.
}
```  

gRPC Support
-------------

If a proto file specifies RPC services, protoc-gen-go can be instructed to generate code compatible with gRPC (http://www.grpc.io/). To do this, pass the `plugins` parameter to protoc-gen-go; the usual way is to insert it into the --go_out argument to protoc:
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  See https://golang.org/doc/install
  for details or, if you are using gccgo, follow the instructions at https://golang.org/doc/install/gccgo
- Grab the code from the repository and install the proto package. The simplest way is to run
  go get -u github.com/golang/protobuf/{proto,protoc-gen-go}
The compiler plugin, protoc-gen-go, will be installed in $GOBIN, defaulting to $GOPATH/bin. It must be in your $PATH for the protocol compiler, protoc, to find it.

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To compile the protocol buffer definition, run protoc with the --gogo_out parameter set to the directory you want to output the Go code to.

protoc --gogo_out= *.proto

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This should be fine, since your import is the same.
descriptor.proto is located in either github.com/gogo/protobuf/protobuf or code.google.com/p/protobuf/trunk/src/
Its import is google/protobuf/descriptor.proto so it might need some help.

protoc --gogo_out=. -I=.:github.com/gogo/protobuf/protobuf *.proto

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Consider file test.proto, containing

```protobuf
default=77];
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newTest := &example.Test{}  
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if err != nil {  
    log.Fatal("unmarshaling error: ", err)  
}  
// Now test and newTest contain the same data.  
if test.GetLabel() != newTest.GetLabel() {  
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}  
// etc.

---

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```
protoc --gogo_out=plugins=grpc:. *.proto
```

---

Extensions for Protocol Buffers to create more go like structures.

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http://github.com/gogo/protobuf/gogoproto

Go support for Protocol Buffers - Google's data interchange format

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https://github.com/golang/protobuf

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This package and the code it generates requires at least Go 1.4.

This software implements Go bindings for protocol buffers. For
information about protocol buffers themselves, see
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## Installation ##

To use this software, you must:
- Install the standard C++ implementation of protocol buffers from
  https://developers.google.com/protocol-buffers/
- Of course, install the Go compiler and tools from
  https://golang.org/

See
https://golang.org/doc/install
for details or, if you are using gccgo, follow the instructions at
https://golang.org/doc/install/gccgo

- Grab the code from the repository and install the proto package.
The simplest way is to run
go get -u github.com/golang/protobuf/{proto,protoc-gen-go}
The compiler plugin, protoc-gen-go, will be installed in $GOBIN,
defaulting to $GOPATH/bin. It must be in your $PATH for the protocol
compiler, protoc, to find it.

This software has two parts: a 'protocol compiler plugin' that
generates Go source files that, once compiled, can access and manage
protocol buffers; and a library that implements run-time support for
encoding (marshaling), decoding (unmarshaling), and accessing protocol
buffers.

There is support for gRPC in Go using protocol buffers.
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GoGoProtobuf provides extensions for protocol buffers and GoProtobuf see http://github.com/gogo/protobuf/gogoproto/doc.go

## Using protocol buffers with Go ##

Once the software is installed, there are two steps to using it.
First you must compile the protocol buffer definitions and then import them, with the support library, into your program.

To compile the protocol buffer definition, run protoc with the --gogo_out parameter set to the directory you want to output the Go code to.

protoc --gogo_out=. *.proto

The generated files will be suffixed .pb.go. See the Test code below for an example using such a file.

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protoc --gogo_out=. -I=.:github.com/gogo/protobuf/protobuf *.proto

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A summary of the properties of the protocol buffer interface for a protocol buffer variable v:

- Names are turned from camel_case to CamelCase for export.
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The getters work even if the receiver is a nil message.
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msg.Foo = proto.String("hello") // set field
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Consider file test.proto, containing

package example;

enum FOO { X = 17; };

message Test {
  required string label = 1;
  optional int32 type = 2 [default=77];
  repeated int64 reps = 3;
  optional group OptionalGroup = 4 {
    required string RequiredField = 5;
  }
}

To create and play with a Test object from the example package,

package main
import (  
    "log"
  
  "github.com/gogo/protobuf/proto"
  "path/to/example"
)

func main() {
    test := &example.Test {
        Label: proto.String("hello"),
        Type: proto.Int32(17),
        OptionalGroup: &example.Test_OptionalGroup {
            RequiredField: proto.String("good bye"),
        },
    }
    data, err := proto.Marshal(test)
    if err != nil {
        log.Fatal("marshaling error: ", err)
    }
    newTest := &example.Test{}
    err = proto.Unmarshal(data, newTest)
    if err != nil {
        log.Fatal("unmarshaling error: ", err)
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    // Now test and newTest contain the same data.
    if test.GetLabel() != newTest.GetLabel() {
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    // etc.
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  ```
  go get -u github.com/golang/protobuf/{proto,protoc-gen-go}
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To compile the protocol buffer definition, run protoc with the --gogo_out parameter set to the directory you want to output the Go code to.

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protoc --gogo_out=. *.proto
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The generated files will be suffixed .pb.go. See the Test code below for an example using such a file.

The package comment for the proto library contains text describing the interface provided in Go for protocol buffers. Here is an edited version.

If you are using any gogo.proto extensions you will need to specify the proto_path to include the descriptor.proto and gogo.proto.
gogo.proto is located in github.com/gogo/protobuf/gogoproto
descriptor.proto is located in either github.com/gogo/protobuf/protobuf
or code.google.com/p/protobuf/trunk/src/
Its import is google/protobuf/descriptor.proto so it might need some help.

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- Oneof field sets are given a single field in their message, with distinguished wrapper types for each possible field value.
- Marshal and Unmarshal are functions to encode and decode the wire format.
Consider file test.proto, containing

```protobuf
google.protobuf.FileDescriptorSet{
  name: "test.proto",
  package: "example",
  children:
    {name: "example")
      message Test {
        required string label = 1;
        optional int32 type = 2 [default=77];
        repeated int64 reps = 3;
        optional group OptionalGroup = 4 {
          required string RequiredField = 5;
        }
      }
    }
```

To create and play with a Test object from the example package,

```go
package main

import (
  "log"
  "github.com/gogo/protobuf/proto"
  "path/to/example"
)

func main() {
  test := &example.Test {
    Label: proto.String("hello"),
    Type:  proto.Int32(17),
    Optionalgroup: &example.Test_OptionalGroup {
      RequiredField: proto.String("good bye"),
    },
  }
  data, err := proto.Marshal(test)
  if err != nil {
    log.Fatal("marshaling error: ", err)
  }
  newTest := &example.Test{}
  err = proto.Unmarshal(data, newTest)
  if err != nil {
    log.Fatal("unmarshaling error: ", err)
  }
  // Now test and newTest contain the same data.
  if test.GetLabel() != newTest.GetLabel() {
    log.Fatalf("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
  }
  // etc.
```
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If a proto file specifies RPC services, protoc-gen-go can be instructed

to generate code compatible with gRPC (http://www.grpc.io/). To do this, pass

the 'plugins' parameter to protoc-gen-go; the usual way is to insert it into
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  optional group OptionalGroup = 4 {
    required string RequiredField = 5;
  }
}

To create and play with a Test object from the example package,

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Type: proto.Int32(17),
OptionalGroup: &example.Test_OptionalGroup {
    RequiredField: proto.String("good bye"),
},

data, err := proto.Marshal(test)
if err != nil {
    log.Fatal("marshaling error: ", err)
}
newTest := &example.Test{
    err = proto.Unmarshal(data, newTest)
if err != nil {
    log.Fatal("unmarshaling error: ", err)
}
// Now test and newTest contain the same data.
if test.GetLabel() != newTest.GetLabel() {
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        Label: proto.String("hello"),
        Type:  proto.Int32(17),
        Optionalgroup: &example.Test_OptionalGroup {
            RequiredField: proto.String("good bye"),
        },
    }
    data, err := proto.Marshal(test)
    if err != nil {
        log.Fatal("marshaling error: ", err)
    }
    newTest := &example.Test{
    }
    err = proto.Unmarshal(data, newTest)
    if err != nil {
        log.Fatal("unmarshaling error: ", err)
    }
    // Now test and newTest contain the same data.
    if test.Label() != newTest.Label() {
        log.Fatal("data mismatch %q != %q", test.Label(), newTest.GetLabel())
    }
    // etc.
}

gRPC Support
-------------

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Extensions for Protocol Buffers to create more go like structures.

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http://github.com/gogo/protobuf/gogoproto

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Marshal and Unmarshal are functions to encode and decode the wire format.

Consider file test.proto, containing

```protobuf
definitions for the example package

package example;

enum FOO { X = 17; }

message Test {
  required string label = 1;
  optional int32 type = 2 [default=77];
  repeated int64 reps = 3;
  optional group OptionalGroup = 4 {
    required string RequiredField = 5;
  }
}
```

To create and play with a Test object from the example package,

```go
package main

import (
  "log"
  "github.com/gogo/protobuf/proto"
  "path/to/example"
)

go func main() {
  test := &example.Test {
    Label: proto.String("hello"),
    Type: proto.Int32(17),
    OptionalGroup: &example.Test_OptionalGroup {
      RequiredField: proto.String("good bye"),
    },
  }
  data, err := proto.Marshal(test)
  if err != nil {
    log.Fatal("marshaling error: ", err)
  }
  newTest := &example.Test{
```
err = proto.Unmarshal(data, newTest)
if err != nil {
    log.Fatal("unmarshaling error: ", err)
}
// Now test and newTest contain the same data.
if test.GetLabel() != newTest.GetLabel() {
    log.Fatalf("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
}
// etc.
}

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**Golang Support**

If a proto file specifies RPC services, protoc-gen-go can be instructed to generate code compatible with gRPC (http://www.grpc.io/). To do this, pass the `plugins` parameter to protoc-gen-go; the usual way is to insert it into the `--go_out` argument to protoc:

```
protoc --gogo_out=plugins=grpc:. *.proto
```

---

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  See
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  for details or, if you are using gccgo, follow the instructions at
  https://golang.org/doc/install/gccgo
- Grab the code from the repository and install the proto package.
  The simplest way is to run
  go get -u github.com/golang/protobuf/[proto,protoc-gen-go]
  The compiler plugin, protoc-gen-go, will be installed in $GOBIN,
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## Using protocol buffers with Go ##

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To compile the protocol buffer definition, run protoc with the --gogo_out parameter set to the directory you want to output the Go code to.

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The generated files will be suffixed .pb.go. See the Test code below for an example using such a file.

The package comment for the proto library contains text describing the interface provided in Go for protocol buffers. Here is an edited version.

If you are using any gogo.proto extensions you will need to specify the proto_path to include the descriptor.proto and gogo.proto.

gogo.proto is located in github.com/gogo/protobuf/gogoproto
This should be fine, since your import is the same.
descriptor.proto is located in either github.com/gogo/protobuf/protobuf or code.google.com/p/protobuf/trunk/src/
Its import is google/protobuf/descriptor.proto so it might need some help.

protoc --gogo_out=. -I=.github.com/gogo/protobuf/protobuf *.proto

============

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- Repeated fields are slices.
- Helper functions are available to aid the setting of fields. Helpers for getting values are superseded by the GetFoo methods and their use is deprecated.

```plaintext
msg.Foo = proto.String("hello") // set field
```

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- Nested groups and enums have type names prefixed with the name of the surrounding message type.

- Extensions are given descriptor names that start with E_, followed by an underscore-delimited list of the nested messages that contain it (if any) followed by the CamelCased name of the extension field itself. HasExtension, ClearExtension, GetExtension and SetExtension are functions for manipulating extensions.

- Oneof field sets are given a single field in their message, with distinguished wrapper types for each possible field value.

- Marshal and Unmarshal are functions to encode and decode the wire format.

Consider file test.proto, containing

```plaintext
package example;

enum FOO { X = 17; };

message Test {
  required string label = 1;
  optional int32 type = 2 [default=77];
  repeated int64 reps = 3;
  optional group OptionalGroup = 4 {
    required string RequiredField = 5;
  }
}
```

To create and play with a Test object from the example package,

```plaintext
package main

import (}
func main() {
    test := &example.Test {
        Label: proto.String("hello"),
        Type:  proto.Int32(17),
        OptionalGroup: &example.Test_OptionalGroup {
            RequiredField: proto.String("good bye"),
        },
    }
    data, err := proto.Marshal(test)
    if err != nil {
        log.Fatal("marshaling error: ", err)
    }
    newTest := &example.Test{
    }
    err = proto.Unmarshal(data, newTest)
    if err != nil {
        log.Fatal("unmarshaling error: ", err)
    }
    // Now test and newTest contain the same data.
    if test.GetLabel() != newTest.GetLabel() {
        log.Fatal("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
    }
    // etc.
}

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=============  
If a proto file specifies RPC services, protoc-gen-go can be instructed to generate code compatible with gRPC (http://www.grpc.io/). To do this, pass the `plugins` parameter to protoc-gen-go; the usual way is to insert it into the --go_out argument to protoc:

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Extensions for Protocol Buffers to create more go like structures.

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- Of course, install the Go compiler and tools from https://golang.org/

See
https://golang.org/doc/install
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  optional group OptionalGroup = 4 {
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}

To create and play with a Test object from the example package,

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import (
  "log"
  "github.com/gogo/protobuf/proto"
  "path/to/example"
)

func main() {
  test := &example.Test {
    Label: proto.String("hello"),
    Type: proto.Int32(17),
    OptionalGroup: &example.Test_OptionalGroup {
      RequiredField: proto.String("good bye"),
    },
  }
  data, err := proto.Marshal(test)
  if err != nil {
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  }
  newTest := &example.Test{}
  err = proto.Unmarshal(data, newTest)
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  }
  // Now test and newTest contain the same data.
  if test.GetLabel() != newTest.GetLabel() {
    log.Fatal("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
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  repeated int64 reps = 3;
  optional group OptionalGroup = 4 {
    required string RequiredField = 5;
  }
}
```

To create and play with a Test object from the example package,

```go
package main

import (    "log"
            "github.com/gogo/protobuf/proto"
            "path/to/example"
)

func main() {
  test := &example.Test {
    Label: proto.String("hello"),
    Type:  proto.Int32(17),
```
OptionalGroup: &example.Test_OptimalGroup {
  RequiredField: proto.String("good bye"),
}
data, err := proto.Marshal(test)
if err != nil {
  log.Fatal("marshaling error: ", err)
}
newTest := &example.Test{
}
err = proto.Unmarshal(data, newTest)
if err != nil {
  log.Fatal("unmarshaling error: ", err)
}
// Now test and newTest contain the same data.
if test.GetLabel() != newTest.GetLabel() {
  log.Fatalf("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
}
// etc.

---

gRPC Support
============
If a proto file specifies RPC services, protoc-gen-go can be instructed to generate code compatible with gRPC (http://www.grpc.io/). To do this, pass the `plugins` parameter to protoc-gen-go; the usual way is to insert it into the `--go_out` argument to protoc:

```
protoc --gogo_out=plugins=grpc:. *.proto
```

Extensions for Protocol Buffers to create more go like structures.

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http://github.com/gogo/protobuf/gogoproto

Go support for Protocol Buffers - Google's data interchange format

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This package and the code it generates requires at least Go 1.4.

This software implements Go bindings for protocol buffers. For
information about protocol buffers themselves, see
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## Installation ##

To use this software, you must:
- Install the standard C++ implementation of protocol buffers from
  https://developers.google.com/protocol-buffers/
- Of course, install the Go compiler and tools from
  https://golang.org/
  See
  https://golang.org/doc/install
  for details or, if you are using gccgo, follow the instructions at
  https://golang.org/doc/install/gccgo
- Grab the code from the repository and install the proto package.
  The simplest way is to run
go get -u github.com/golang/protobuf/[proto.protoc-gen-go]
  The compiler plugin, protoc-gen-go, will be installed in $GOBIN,
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This software has two parts: a 'protocol compiler plugin' that generates Go source files that, once compiled, can access and manage protocol buffers; and a library that implements run-time support for encoding (marshaling), decoding (unmarshaling), and accessing protocol buffers.

There is support for gRPC in Go using protocol buffers. See the note at the bottom of this file for details.

There are no insertion points in the plugin.

GoGoProtobuf provides extensions for protocol buffers and GoProtobuf see http://github.com/gogo/protobuf/gogoproto/doc.go

## Using protocol buffers with Go ##

Once the software is installed, there are two steps to using it.
First you must compile the protocol buffer definitions and then import them, with the support library, into your program.

To compile the protocol buffer definition, run protoc with the --gogo_out parameter set to the directory you want to output the Go code to.

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The generated files will be suffixed .pb.go. See the Test code below for an example using such a file.

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If you are using any gogo.proto extensions you will need to specify the proto_path to include the descriptor.proto and gogo.proto.
gogo.proto is located in github.com/gogo/protobuf/gogoproto
This should be fine, since your import is the same.
descriptor.proto is located in either github.com/gogo/protobuf/protobuf or code.google.com/p/protobuf/trunk/src/
Its import is google/protobuf/descriptor.proto so it might need some help.

protoc --gogo_out=. -I=.:github.com/gogo/protobuf/protobuf *.proto

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A summary of the properties of the protocol buffer interface for a protocol buffer variable v:

- Names are turned from camel_case to CamelCase for export.
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- The zero value for a struct is its correct initialization state. All desired fields must be set before marshaling.
- A Reset() method will restore a protobuf struct to its zero state.
- Non-repeated fields are pointers to the values; nil means unset.
- Repeated fields are slices.
- Helper functions are available to aid the setting of fields. Helpers for getting values are superseded by the GetFoo methods and their use is deprecated.

msg.Foo = proto.String("hello") // set field

- Constants are defined to hold the default values of all fields that have them. They have the form Default_StructName_FieldName. Because the getter methods handle defaulted values, direct use of these constants should be rare.
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- Nested groups and enums have type names prefixed with the name of the surrounding message type.
- Extensions are given descriptor names that start with E_, followed by an underscore-delimited list of the nested messages that contain it (if any) followed by the CamelCased name of the extension field itself. HasExtension, ClearExtension, GetExtension and SetExtension are functions for manipulating extensions.
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Consider file test.proto, containing

```proto
package example;

enum FOO { X = 17; }; 

message Test { 
  required string label = 1;
  optional int32 type = 2 [default=77];
  repeated int64 reps = 3;
  optional group OptionalGroup = 4 {
```
To create and play with a Test object from the example package,

```go
package main

import (
    "log"
    "github.com/gogo/protobuf/proto"
    "path/to/example"
)

func main() {
    test := &example.Test{
        Label: proto.String("hello"),
        Type:  proto.Int32(17),
        OptionalGroup: &example.Test_OptionalGroup {
            RequiredField: proto.String("good bye"),
        },
    }
    data, err := proto.Marshal(test)
    if err != nil {
        log.Fatal("marshaling error: ", err)
    }
    newTest := &example.Test{}
    err = proto.Unmarshal(data, newTest)
    if err != nil {
        log.Fatal("unmarshaling error: ", err)
    }
    // Now test and newTest contain the same data.
    if test.GetLabel() != newTest.GetLabel() {
        log.Fatalf("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
    }
    // etc.
}
```

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If a proto file specifies RPC services, protoc-gen-go can be instructed to generate code compatible with gRPC (http://www.grpc.io/). To do this, pass the `plugins` parameter to protoc-gen-go; the usual way is to insert it into the `--go_out` argument to protoc:

```
protoc --gogo_out=plugins=grpc:. *.proto
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  See https://golang.org/doc/install
  for details or, if you are using gccgo, follow the instructions at https://golang.org/doc/install/gccgo
- Grab the code from the repository and install the proto package.
  The simplest way is to run
  go get -u github.com/golang/protobuf/{proto,protoc-gen-go}
  The compiler plugin, protoc-gen-go, will be installed in $GOBIN, defaulting to $GOPATH/bin. It must be in your $PATH for the protocol compiler, protoc, to find it.

This software has two parts: a 'protocol compiler plugin' that generates Go source files that, once compiled, can access and manage protocol buffers; and a library that implements run-time support for encoding (marshaling), decoding (unmarshaling), and accessing protocol buffers.

There is support for gRPC in Go using protocol buffers.
  See the note at the bottom of this file for details.

There are no insertion points in the plugin.

GoGoProtobuf provides extensions for protocol buffers and GoProtobuf
  see http://github.com/gogo/protobuf/gogoproto/doc.go

## Using protocol buffers with Go ##

Once the software is installed, there are two steps to using it.
First you must compile the protocol buffer definitions and then import them, with the support library, into your program.

To compile the protocol buffer definition, run protoc with the --gogo_out parameter set to the directory you want to output the Go code to.

protoc --gogo_out=. *.proto

The generated files will be suffixed .pb.go. See the Test code below for an example using such a file.

The package comment for the proto library contains text describing
the interface provided in Go for protocol buffers. Here is an edited version.

If you are using any gogo.proto extensions you will need to specify the 
proto_path to include the descriptor.proto and gogo.proto. 
gogo.proto is located in github.com/gogo/protobuf/gogoproto 
This should be fine, since your import is the same. 
descriptor.proto is located in either github.com/gogo/protobuf/protobuf 
or code.google.com/p/protobuf/trunk/src/ 
Its import is google/protobuf/descriptor.proto so it might need some help. 

protoc --gogo_out=. -I=:.github.com/gogo/protobuf/protobuf *.proto 

==========

The proto package converts data structures to and from the 
wire format of protocol buffers. It works in concert with the 
Go source code generated for .proto files by the protocol compiler. 

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- The zero value for a struct is its correct initialization state. 
  All desired fields must be set before marshaling. 
- A Reset() method will restore a protobuf struct to its zero state. 
- Non-repeated fields are pointers to the values; nil means unset. 
  That is, optional or required field int32 f becomes F *int32. 
- Repeated fields are slices. 
- Helper functions are available to aid the setting of fields. 
  Helpers for getting values are superseded by the 
  GetFoo methods and their use is deprecated. 
msg.Foo = proto.String("hello") // set field 
- Constants are defined to hold the default values of all fields that 
  have them. They have the form Default_StructName_FieldName. 
  Because the getter methods handle defaulted values, 
  direct use of these constants should be rare. 
- Enums are given type names and maps from names to values. 
  Enum values are prefixed with the enum's type name. Enum types have 
  a String method, and a Enum method to assist in message construction. 
- Nested groups and enums have type names prefixed with the name of 
  the surrounding message type. 
- Extensions are given descriptor names that start with E_.

---
followed by an underscore-delimited list of the nested messages that contain it (if any) followed by the CamelCased name of the extension field itself. HasExtension, ClearExtension, GetExtension and SetExtension are functions for manipulating extensions.
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Consider file test.proto, containing

```proto
package example;

enum FOO { X = 17; }

message Test {
  required string label = 1;
  optional int32 type = 2 [default=77];
  repeated int64 reps = 3;
  optional group OptionalGroup = 4 {
    required string RequiredField = 5;
  }
}
```

To create and play with a Test object from the example package,

```go
package main

import (
  "log"
  "github.com/gogo/protobuf/proto"
  "path/to/example"
)

func main() {
  test := &example.Test {
    Label: proto.String("hello"),
    Type:  proto.Int32(17),
    OptionalGroup: &example.Test_OptionalGroup {
      RequiredField: proto.String("good bye"),
    },
  }
  data, err := proto.Marshal(test)
  if err != nil {
    log.Fatal("marshaling error: ", err)
  }
  newTest := &example.Test{
  }
  err = proto.Unmarshal(data, newTest)
```
if err != nil {
    log.Fatal("unmarshaling error: ", err)
}

// Now test and newTest contain the same data.
if test.GetLabel() != newTest.GetLabel() {
    log.Fatalf("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
}

// etc.

---

**gRPC Support**

If a proto file specifies RPC services, protoc-gen-go can be instructed to generate code compatible with gRPC (http://www.grpc.io/). To do this, pass the `plugins` parameter to protoc-gen-go; the usual way is to insert it into the `--go_out` argument to protoc:

```shell
protoc --gogo_out=plugins=grpc:. *.proto
```

---

Extensions for Protocol Buffers to create more go like structures.

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http://github.com/gogo/protobuf/gogoproto

Go support for Protocol Buffers - Google’s data interchange format

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- Grab the code from the repository and install the proto package. The simplest way is to run
go get -u github.com/golang/protobuf/{proto,protoc-gen-go}
The compiler plugin, protoc-gen-go, will be installed in $GOBIN, defaulting to $GOPATH/bin. It must be in your $PATH for the protocol compiler, protoc, to find it.

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## Using protocol buffers with Go ##

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```
package main

import (
  "log"

```
func main() {
    test := &example.Test {
        Label: proto.String("hello"),
        Type: proto.Int32(17),
        OptionalGroup: &example.Test_OptionalGroup {
            RequiredField: proto.String("good bye"),
        },
    }
    data, err := proto.Marshal(test)
    if err != nil {
        log.Fatal("marshaling error: ", err)
    }
    newTest := &example.Test{}
    err = proto.Unmarshal(data, newTest)
    if err != nil {
        log.Fatal("unmarshaling error: ", err)
    }
    // Now test and newTest contain the same data.
    if test.GetLabel() != newTest.GetLabel() {
        log.Fatalf("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
    }
    // etc.
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- Nested groups and enums have type names prefixed with the name of the surrounding message type.
- Extensions are given descriptor names that start with E_, followed by an underscore-delimited list of the nested messages that contain it (if any) followed by the CamelCased name of the extension field itself. HasExtension, ClearExtension, GetExtension and SetExtension are functions for manipulating extensions.
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To create and play with a Test object from the example package,

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  "log"
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func main() {
  test := &example.Test {
    Label: proto.String("hello"),
    Type:  proto.Int32(17),
    OptionalGroup: &example.Test_OptionalGroup {
      RequiredField: proto.String("good bye"),
    },
  }
  data, err := proto.Marshal(test)
  if err != nil {
    log.Fatal("marshaling error: ", err)
  }
  newTest := &example.Test{}
  err = proto.Unmarshal(data, newTest)
  if err != nil {
    log.Fatal("unmarshaling error: ", err)
  }
  // Now test and newTest contain the same data.
  if test.GetLabel() != newTest.GetLabel() {
    log.Fatal("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
  }
  // etc.
gRPC Support

If a proto file specifies RPC services, protoc-gen-go can be instructed to generate code compatible with gRPC (http://www.grpc.io/). To do this, pass the `plugins` parameter to protoc-gen-go; the usual way is to insert it into
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```bash
protoc --gogo_out=plugins=grpc:. *.proto
```

Extensions for Protocol Buffers to create more go like structures.

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http://github.com/gogo/protobuf/gogoprotoc

Go support for Protocol Buffers - Google's data interchange format

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This package and the code it generates requires at least Go 1.4.

This software implements Go bindings for protocol buffers. For information about protocol buffers themselves, see https://developers.google.com/protocol-buffers/

### Installation ###

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- Of course, install the Go compiler and tools from https://golang.org/
  See https://golang.org/doc/install for details or, if you are using gccgo, follow the instructions at https://golang.org/doc/install/gccgo
- Grab the code from the repository and install the proto package. The simplest way is to run
  go get -u github.com/golang/protobuf/{proto,protoc-gen-go}
  The compiler plugin, protoc-gen-go, will be installed in $GOBIN, defaulting to $GOPATH/bin. It must be in your $PATH for the protocol compiler, protoc, to find it.

This software has two parts: a 'protocol compiler plugin' that generates Go source files that, once compiled, can access and manage protocol buffers; and a library that implements run-time support for encoding (marshaling), decoding (unmarshaling), and accessing protocol buffers.

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To compile the protocol buffer definition, run protoc with the --gogo_out parameter set to the directory you want to output the Go code to.

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protoc --gogo_out=. *.proto
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The generated files will be suffixed .pb.go. See the Test code below for an example using such a file.

The package comment for the proto library contains text describing the interface provided in Go for protocol buffers. Here is an edited version.

If you are using any gogo.proto extensions you will need to specify the proto_path to include the descriptor.proto and gogo.proto.

gogo.proto is located in github.com/gogo/protobuf/gogoproto

This should be fine, since your import is the same.
descriptor.proto is located in either github.com/gogo/protobuf/protobuf or code.google.com/p/protobuf/trunk/src/

Its import is google/protobuf/descriptor.proto so it might need some help.

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package example;

enum FOO { X = 17; };

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  repeated int64 reps = 3;
  optional group OptionalGroup = 4 {
    required string RequiredField = 5;
  }
}

To create and play with a Test object from the example package,

package main

import (
  "log"
  "github.com/gogo/protobuf/proto"
  "path/to/example"
)

func main() {
  test := &example.Test {
    Label: proto.String("hello"),
    Type: proto.Int32(17),
    Optionalgroup: &example.Test_OptionalGroup {

open source used in application centric infrastructure service engine (aci-se) 1.1

```
...)
data, err := proto.Marshal(test)
if err != nil {
    log.Fatal("marshaling error: ", err)
}
newTest := &example.Test{ }
err = proto.Unmarshal(data, newTest)
if err != nil {
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```

---
= Godeps/_workspace/src/github.com/gogo/protobuf/plugin/unmarshal licensed under: =

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- Grab the code from the repository and install the proto package. The simplest way is to run
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If you are using any gogo.proto extensions you will need to specify the proto_path to include the descriptor.proto and gogo.proto.

gogo.proto is located in github.com/gogo/protobuf/gogoproto
This should be fine, since your import is the same.
descriptor.proto is located in either github.com/gogo/protobuf/protobuf or code.google.com/p/protobuf/trunk/src/
Its import is google/protobuf/descriptor.proto so it might need some help.

protoc --gogo_out=. -I=.:github.com/gogo/protobuf/protobuf *.proto

==========

The proto package converts data structures to and from the wire format of protocol buffers. It works in concert with the Go source code generated for .proto files by the protocol compiler.

A summary of the properties of the protocol buffer interface

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for a protocol buffer variable v:

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That is, optional or required field int32 f becomes F *int32.
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Helpers for getting values are superseded by the GetFoo methods and their use is deprecated.

```go
msg.Foo = proto.String("hello") // set field
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- Oneof field sets are given a single field in their message, with distinguished wrapper types for each possible field value.
- Marshal and Unmarshal are functions to encode and decode the wire format.

Consider file test.proto, containing

```go
package example;

eNum FOO { X = 17; };

message Test {
  required string label = 1;
  optional int32 type = 2 [default=77];
  repeated int64 reps = 3;
  optional group OptionalGroup = 4 {
    required string RequiredField = 5;
```
To create and play with a Test object from the example package,

```go
package main

import (
    "log"
    "github.com/gogo/protobuf/proto"
    "path/to/example"
)

func main() {
    test := &example.Test {
        Label: proto.String("hello"),
        Type:  proto.Int32(17),
        OptionalGroup: &example.Test_OptionalGroup {
            RequiredField: proto.String("good bye"),
        },
    }
    data, err := proto.Marshal(test)
    if err != nil {
        log.Fatal("marshaling error: ", err)
    }
    newTest := &example.Test{}
    err = proto.Unmarshal(data, newTest)
    if err != nil {
        log.Fatal("unmarshaling error: ", err)
    }
    // Now test and newTest contain the same data.
    if test.GetLabel() != newTest.GetLabel() {
        log.Fatalf("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
    }
    // etc.
}
```

gRPC Support
-------------
If a proto file specifies RPC services, protoc-gen-go can be instructed to generate code compatible with gRPC (http://www.grpc.io/). To do this, pass the `plugins` parameter to protoc-gen-go; the usual way is to insert it into the `--go_out` argument to protoc:

```
protoc --gogo_out=plugins=grpc:.*.proto
```
Extensions for Protocol Buffers to create more go like structures.

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- Grab the code from the repository and install the proto package.
  The simplest way is to run
got -u github.com/golang/protobuf/{proto,protoc-gen-go}
The compiler plugin, protoc-gen-go, will be installed in $GOBIN, defaulting to $GOPATH/bin. It must be in your $PATH for the protocol compiler, protoc, to find it.

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descriptor.proto is located in either github.com/gogo/protobuf/protobuf
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Its import is google/protobuf/descriptor.proto so it might need some help.

protoc --gogo_out=./ -I=./github.com/gogo/protobuf/protobuf * .proto

==========

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```go
package main

import (
  "log"
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  "path/to/example"
)

func main() {
  test := &example.Test {
    Label: proto.String("hello"),
    Type: proto.Int32(17),
    OptionalGroup: &example.Test_OptionalGroup {
      RequiredField: proto.String("good bye"),
    },
  }
  data, err := proto.Marshal(test)
  if err != nil {
    log.Fatal("marshaling error: ", err)
  }
  newTest := &example.Test{}
  err = proto.Unmarshal(data, newTest)
  if err != nil {
    
```
log.Fatal("unmarshaling error: ", err)
}
// Now test and newTest contain the same data.
if test.GetLabel() != newTest.GetLabel() { 
log.Fatalf("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
}
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with distinguished wrapper types for each possible field value.
- Marshal and Unmarshal are functions to encode and decode the wire format.

Consider file test.proto, containing

package example;

enum FOO { X = 17; };

message Test {
  required string label = 1;
  optional int32 type = 2 [default=77];
  repeated int64 reps = 3;
  optional group OptionalGroup = 4 {
    required string RequiredField = 5;
  }
}

To create and play with a Test object from the example package,

package main

import ("log"

func main() {
    test := &example.Test {
        Label: proto.String("hello"),
        Type:  proto.Int32(17),
        Optionalgroup: &example.Test_OptionalGroup {
            RequiredField: proto.String("good bye"),
        },
    }
    data, err := proto.Marshal(test)
    if err != nil {
        log.Fatal("marshaling error: ", err)
    }
    newTest := &example.Test{
    }
    err = proto.Unmarshal(data, newTest)
    if err != nil {
        log.Fatal("unmarshaling error: ", err)
    }
    // Now test and newTest contain the same data.
    if test.GetLabel() != newTest.GetLabel() {
        log.Fatalf("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
    }
    // etc.
}

gRPC Support
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If a proto file specifies RPC services, protoc-gen-go can be instructed to generate code compatible with gRPC (http://www.grpc.io/). To do this, pass the `plugins` parameter to protoc-gen-go; the usual way is to insert it into the `--go_out` argument to protoc:

protoc --gogo_out=plugins=grpc:. *.proto

Extensions for Protocol Buffers to create more go like structures.

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http://github.com/gogo/protobuf/gogoproto

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  for details or, if you are using gcggo, follow the instructions at
https://golang.org/doc/install/gccgo
- Grab the code from the repository and install the proto package.
The simplest way is to run
go get -u github.com/golang/protobuf/{proto,protoc-gen-go}
The compiler plugin, protoc-gen-go, will be installed in $GOBIN, defaulting to $GOPATH/bin. It must be in your $PATH for the protocol compiler, protoc, to find it.

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This should be fine, since your import is the same.
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- The zero value for a struct is its correct initialization state. All desired fields must be set before marshaling.
- A `Reset()` method will restore a protobuf struct to its zero state.
- Non-repeated fields are pointers to the values; nil means unset.
- That is, optional or required field int32 `f` becomes `F *int32`.
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- Helper functions are available to aid the setting of fields.
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- `Marshal` and `Unmarshal` are functions to encode and decode the wire format.

Consider file `test.proto`, containing

```protobuf
package example;
```

enum FOO { X = 17; }

message Test {
  required string label = 1;
  optional int32 type = 2 [default=77];
  repeated int64 reps = 3;
  optional group OptionalGroup = 4 {
    required string RequiredField = 5;
  }
}

To create and play with a Test object from the example package,

package main

import (    
  "log"
  "github.com/gogo/protobuf/proto"
  "path/to/example"
)

func main() {
  test := &example.Test {
    Label: proto.String("hello"),
    Type: proto.Int32(17),
    OptionalGroup: &example.Test_OptionalGroup {
      RequiredField: proto.String("good bye"),
    },
  }
  data, err := proto.Marshal(test)
  if err != nil {
    log.Fatal("marshaling error: ", err)
  }
  newTest := &example.Test{
  err = proto.Unmarshal(data, newTest)
  if err != nil {
    log.Fatal("unmarshaling error: ", err)
  }
  // Now test and newTest contain the same data.
  if test.GetLabel() != newTest.GetLabel() {
    log.Fatal("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
  }
  // etc.
}
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    protoc --go_out=plugins=grpc:. *.proto

================================================================================
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Extensions for Protocol Buffers to create more go like structures.

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This software implements Go bindings for protocol buffers. For information about protocol buffers themselves, see https://developers.google.com/protocol-buffers/  

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- Of course, install the Go compiler and tools from https://golang.org/

See https://golang.org/doc/install

for details or, if you are using gccgo, follow the instructions at https://golang.org/doc/install/gccgo
- Grab the code from the repository and install the proto package.

The simplest way is to run
go get -u github.com/golang/protobuf/{proto,protoc-gen-go}

The compiler plugin, protoc-gen-go, will be installed in $GOBIN, defaulting to $GOPATH/bin. It must be in your $PATH for the protocol compiler, protoc, to find it.

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See the note at the bottom of this file for details.

There are no insertion points in the plugin.

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## Using protocol buffers with Go ##

Once the software is installed, there are two steps to using it.
First you must compile the protocol buffer definitions and then import them, with the support library, into your program.

To compile the protocol buffer definition, run protoc with the --gogo_out
parameter set to the directory you want to output the Go code to.

protoc --gogo_out=. *.proto

The generated files will be suffixed .pb.go. See the Test code below for an example using such a file.

The package comment for the proto library contains text describing the interface provided in Go for protocol buffers. Here is an edited version.

If you are using any gogo.proto extensions you will need to specify the proto_path to include the descriptor.proto and gogo.proto.
gogo.proto is located in github.com/gogo/protobuf/gogoproto
This should be fine, since your import is the same.
descriptor.proto is located in either github.com/gogo/protobuf/protobuf or code.google.com/p/protobuf/trunk/src/
Its import is google/protobuf/descriptor.proto so it might need some help.

protoc --gogo_out=. -I=.github.com/gogo/protobuf/protobuf *.proto

==========

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A summary of the properties of the protocol buffer interface for a protocol buffer variable v:

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That is, optional or required field int32 f becomes F *int32.
- Repeated fields are slices.
- Helper functions are available to aid the setting of fields.
Helpers for getting values are superseded by the GetFoo methods and their use is deprecated.
msg.Foo = proto.String("hello") // set field
- Constants are defined to hold the default values of all fields that have them. They have the form Default_StructName_FieldName.

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6299
Because the getter methods handle defaulted values, direct use of these constants should be rare.

- Enums are given type names and maps from names to values. Enum values are prefixed with the enum's type name. Enum types have a String method, and a Enum method to assist in message construction.
- Nested groups and enums have type names prefixed with the name of the surrounding message type.
- Extensions are given descriptor names that start with E_, followed by an underscore-delimited list of the nested messages that contain it (if any) followed by the CamelCased name of the extension field itself. HasExtension, ClearExtension, GetExtension and SetExtension are functions for manipulating extensions.
- Oneof field sets are given a single field in their message, with distinguished wrapper types for each possible field value.
- Marshal and Unmarshal are functions to encode and decode the wire format.

Consider file test.proto, containing

```
package example;

enum FOO { X = 17; };

message Test {
  required string label = 1;
  optional int32 type = 2 [default=77];
  repeated int64 reps = 3;
  optional group OptionalGroup = 4 {
    required string RequiredField = 5;
  }
}
```

To create and play with a Test object from the example package,

```
package main

import (    "log"
    "github.com/gogo/protobuf/proto"
    "path/to/example"
)

func main() {
  test := &example.Test {
    Label: proto.String("hello"),
    Type: proto.Int32(17),
    OptionalGroup: &example.TestOptionalGroup {
      RequiredField: proto.String("good bye"),
    }
  }
```
data, err := proto.Marshal(test)
if err != nil {
  log.Fatal("marshaling error: ", err)
}
newTest := &example.Test{}
err = proto.Unmarshal(data, newTest)
if err != nil {
  log.Fatal("unmarshaling error: ", err)
}
// Now test and newTest contain the same data.
if test.GetLabel() != newTest.GetLabel() {
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}
// etc.

---

**gRPC Support**

If a proto file specifies RPC services, protoc-gen-go can be instructed to generate code compatible with gRPC (http://www.grpc.io/). To do this, pass the `plugins` parameter to protoc-gen-go; the usual way is to insert it into the `--go_out` argument to protoc:

```
protoc --gogo_out=plugins=grpc:. *.proto
```

---

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```golang
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```

Extensions for Protocol Buffers to create more go like structures.

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[http://github.com/gogo/protobuf/gogoproto](http://github.com/gogo/protobuf/gogoproto)

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https://github.com/golang/protobuf

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```

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Its import is google/protobuf/descriptor.proto so it might need some help.

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  repeated int64 reps = 3;
  optional group OptionalGroup = 4 {
    required string RequiredField = 5;
  }
}

To create and play with a Test object from the example package,

package main

import (
  "log"
  "github.com/gogo/protobuf/protobuf"
  "path/to/example"
)

func main() {
  test := &example.Test {
    Label: proto.String("hello"),
    Type: proto.Int32(17),
    OptionalGroup: &example.Test_OptionalGroup {
      RequiredField: proto.String("good bye"),
    },
  }
  data, err := proto.Marshal(test)
  if err != nil {
    log.Fatal("marshaling error: ", err)
  }
  newTest := &example.Test{
  }
  err = proto.Unmarshal(data, newTest)
  if err != nil {
    log.Fatal("unmarshaling error: ", err)
  }
// Now test and newTest contain the same data.
if test.GetLabel() != newTest.GetLabel() {
    log.Fatal(fmt.Sprintf("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel()))
}
// etc.
}

gRPC Support
==============
If a proto file specifies RPC services, protoc-gen-go can be instructed to
generate code compatible with gRPC (http://www.grpc.io/). To do this, pass
the 'plugins' parameter to protoc-gen-go; the usual way is to insert it into
the --go_out argument to protoc:

protoc --gogo_out=plugins=grpc:. *.proto

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https://github.com/golang/protobuf

This package and the code it generates requires at least Go 1.4.

This software implements Go bindings for protocol buffers. For information about protocol buffers themselves, see https://developers.google.com/protocol-buffers/

## Installation ##

To use this software, you must:
- Install the standard C++ implementation of protocol buffers from https://developers.google.com/protocol-buffers/
- Of course, install the Go compiler and tools from https://golang.org/
  See https://golang.org/doc/install
  for details or, if you are using gccgo, follow the instructions at https://golang.org/doc/install/gccgo
- Grab the code from the repository and install the proto package.
  The simplest way is to run `go get -u github.com/golang/protobuf/[proto,protoc-gen-go]`.
  The compiler plugin, protoc-gen-go, will be installed in $GOBIN,
  defaulting to $GOPATH/bin. It must be in your $PATH for the protocol compiler, protoc, to find it.

This software has two parts: a 'protocol compiler plugin' that generates Go source files that, once compiled, can access and manage protocol buffers; and a library that implements run-time support for encoding (marshaling), decoding (unmarshaling), and accessing protocol buffers.
There is support for gRPC in Go using protocol buffers. See the note at the bottom of this file for details.

There are no insertion points in the plugin.

## Using protocol buffers with Go ##

Once the software is installed, there are two steps to using it. First you must compile the protocol buffer definitions and then import them, with the support library, into your program.

To compile the protocol buffer definition, run protoc with the --go_out parameter set to the directory you want to output the Go code to.

```
protoc --go_out=. *.proto
```

The generated files will be suffixed .pb.go. See the Test code below for an example using such a file.

The package comment for the proto library contains text describing the interface provided in Go for protocol buffers. Here is an edited version.

==========

The proto package converts data structures to and from the wire format of protocol buffers. It works in concert with the Go source code generated for .proto files by the protocol compiler.

A summary of the properties of the protocol buffer interface for a protocol buffer variable v:

- Names are turned from camel_case to CamelCase for export.
- There are no methods on v to set fields; just treat them as structure fields.
- There are getters that return a field's value if set, and return the field's default value if unset. The getters work even if the receiver is a nil message.
- The zero value for a struct is its correct initialization state. All desired fields must be set before marshaling.
- A Reset() method will restore a protobuf struct to its zero state.
- Non-repeated fields are pointers to the values; nil means unset.
  That is, optional or required field int32 f becomes F *int32.
- Repeated fields are slices.
- Helper functions are available to aid the setting of fields.
  Helpers for getting values are superseded by the
GetFoo methods and their use is deprecated.
msg.Foo = proto.String("hello") // set field

- Constants are defined to hold the default values of all fields that
  have them. They have the form Default_StructName_FieldName.
  Because the getter methods handle defaulted values,
  direct use of these constants should be rare.
- Enums are given type names and maps from names to values.
  Enum values are prefixed with the enum's type name. Enum types have
  a String method, and an Enum method to assist in message construction.
- Nested groups and enums have type names prefixed with the name of
  the surrounding message type.
- Extensions are given descriptor names that start with E_
  followed by an underscore-delimited list of the nested messages
  that contain it (if any) followed by the CamelCased name of the
  extension field itself. HasExtension, ClearExtension, GetExtension
  and SetExtension are functions for manipulating extensions.
- Oneof field sets are given a single field in their message,
  with distinguished wrapper types for each possible field value.

When the .proto file specifies `syntax="proto3"`, there are some differences:

- Non-repeated fields of non-message type are values instead of pointers.
- Getters are only generated for message and oneof fields.
- Enum types do not get an Enum method.

Consider file test.proto, containing

```proto
package example;

enum FOO { X = 17; };

message Test {
  required string label = 1;
  optional int32 type = 2 [default=77];
  repeated int64 reps = 3;
  optional group OptionalGroup = 4 {
    required string RequiredField = 5;
  }
}
```

To create and play with a Test object from the example package,

```go
package main
```
import (  
    "log"

    "github.com/golang/protobuf/protobuf"
    "path/to/example"
)

func main() {
    test := &example.Test {
        Label: proto.String("hello"),
        Type:  proto.Int32(17),
        Reps:  []int64{1, 2, 3},
        Optionalgroup: &example.Test_OptionalGroup {
            RequiredField: proto.String("good bye"),
        },
    }
    data, err := proto.Marshal(test)
    if err != nil {
        log.Fatal("marshaling error: ", err)
    }
    newTest := &example.Test{
        err = proto.Unmarshal(data, newTest)
        if err != nil {
            log.Fatal("unmarshaling error: ", err)
        }
    }
    // Now test and newTest contain the same data.
    if test.GetLabel() != newTest.GetLabel() {
        log.Fatal("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
    }
    // etc.
}
```
```
- `plugins=plugin1+plugin2` - specifies the list of sub-plugins to load. The only plugin in this repo is `grpc`.
- `Mfoo/bar.proto=quux/shme` - declares that foo/bar.proto is associated with Go package quux/shme. This is subject to the import_prefix parameter.

## gRPC Support ##

If a proto file specifies RPC services, protoc-gen-go can be instructed to generate code compatible with gRPC (http://www.grpc.io/). To do this, pass the `plugins` parameter to protoc-gen-go; the usual way is to insert it into the --go_out argument to protoc:

```
protoc --go_out=plugins=grpc:. *.proto
```

---

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Gocheck - A rich testing framework for Go

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**Go support for Protocol Buffers - Google's data interchange format**

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**Support for streaming Protocol Buffer messages for the Go language (golang).**

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**proofs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.**

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Gocheck - A rich testing framework for Go

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Go support for Protocol Buffers - Google's data interchange format

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1.233 docker 1.13.1-88

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Gocheck - A rich testing framework for Go

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1.234 docker-client 1.13.1-88

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Version 3.1, 31 March 2009

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Theodore Ts'o
23-June-2007

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<one line to give the program's name and a brief idea of what it does.>
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Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

    Gnomovision version 69, Copyright (C) year name of author
    Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
    This is free software, and you are welcome to redistribute it
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The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

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    `Gnomovision' (which makes passes at compilers) written by James Hacker.

    <signature of Ty Coon>, 1 April 1989
    Ty Coon, President of Vice

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[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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Index: tdbsa/tdb.c

===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
/*
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
- 
- Copyright (C) Andrew Tridgell 2005
** NOTE! The following LGPL license applies to the tdb
** library. This does NOT imply that all of Samba is released

#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:$(BSD_LIB)

$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) `echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
@end "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \
$(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB) \
@-$($(LDCONFIG) \

install-strip: install

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
clean:
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)
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Gadi Oxman, August 1995

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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

It is part of the main e2fsprogs distribution, which can be found at:

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This package was put together by Yann Dirson <dirson@debian.org>,
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   analysis/common/src/java/net/sf/snowball
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analysis/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/bn/stopwords.txt

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analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java
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The code for the t-digest was originally authored by Ted Dunning

A number of small but very helpful changes have been contributed by Adrien Grand (https://github.com/jpountz)

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***The art of simplicity is a puzzle of complexity.***

## Overview ##

[YAML](http://yaml.org) is a data serialization format designed for human readability and interaction with scripting languages.

SnakeYAML is a YAML processor for the Java Virtual Machine.

## SnakeYAML features ##

* a **complete** [YAML 1.1 processor](http://yaml.org/spec/1.1/current.html). In particular, SnakeYAML can parse all examples from the specification.
* Unicode support including UTF-8/UTF-16 input/output.
* high-level API for serializing and deserializing native Java objects.
* support for all types from the [YAML types repository](http://yaml.org/type/index.html).
* relatively sensible error messages.

## Info ##

* [Changes](https://bitbucket.org/asomov/snakeyaml/wiki/Changes)
* [Documentation](https://bitbucket.org/asomov/snakeyaml/wiki/Documentation)

## Contribute ##

* Mercurial DVCS is used to dance with the [source code](https://bitbucket.org/asomov/snakeyaml/src).
* If you find a bug in SnakeYAML, please [file a bug report](https://bitbucket.org/asomov/snakeyaml/issues?status=new&status=open).
* You may discuss SnakeYAML at [the mailing list](http://groups.google.com/group/snakeyaml-core).
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* Shay Banon (kimchy) (For Elasticsearch, of course!)
* Aaron Mildenstein (untergeek)
* Njal Karevoll
* Francois Deppierraz
* Honza Kral (HonzaKral)
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Elasticsearch X-Pack
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import org.elasticsearch.gradle.test.ClusterConfiguration
import org.elasticsearch.gradle.test.ClusterFormationTasks
import org.elasticsearch.gradle.test.NodeInfo

apply plugin: 'elasticsearch.standalone-test'
apply plugin: 'elasticsearch.standalone-rest-test'
apply plugin: 'elasticsearch.rest-test'

dependencies {
    testCompile project(path: ':modules:tribe', configuration: 'runtime')
    testCompile project(path: xpackProject('plugin').path, configuration: 'testArtifacts')

    // TODO: remove all these test deps, this is completely bogus, guava is being force upgraded
    testCompile project(path: xpackModule('deprecation'), configuration: 'runtime')
    testCompile project(path: xpackModule('graph'), configuration: 'runtime')
    testCompile project(path: xpackModule('logstash'), configuration: 'runtime')
    testCompile project(path: xpackModule('ml'), configuration: 'runtime')
    testCompile project(path: xpackModule('monitoring'), configuration: 'runtime')
    testCompile project(path: xpackModule('security'), configuration: 'runtime')
    testCompile project(path: xpackModule('upgrade'), configuration: 'runtime')
    testCompile project(path: xpackModule('watcher'), configuration: 'runtime')
    testCompile project(path: xpackModule('core'), configuration: 'testArtifacts')
    testCompile project(path: xpackModule('monitoring'), configuration: 'testArtifacts')
}

compileTestJava.options.compilerArgs << "-Xlint:-rawtypes,-unchecked"
namingConventions.skipIntegTestInDisguise = true

test {
    /*
    * We have to disable setting the number of available processors as tests in the same JVM randomize processors and will step on each
    * other if we allow them to set the number of available processors as it's set-once in Netty.
    */
/*
  systemProperty 'es.set.netty.runtime.available.processors', 'false'
  include '**/*Tests.class'
}

String licensePath = xpackProject('license-tools').projectDir.toPath().resolve('src/test/resources').toString()
sourceSets {
  test {
    resources {
      srcDirs += [licensePath]
    }
  }
}

project.forbiddenPatterns {
  exclude '**/*.key'
}

task setupClusterOne {}
ClusterConfiguration cluster1Config = new ClusterConfiguration(project)
custom1Config.clusterName = 'cluster1'
custom1Config.setting('node.name', 'cluster1-node1')
// x-pack
cluster1Config.setting('xpack.monitoring.enabled', false)
cluster1Config.setting('xpack.security.enabled', false)
cluster1Config.setting('xpack.watcher.enabled', false)
cluster1Config.setting('xpack.graph.enabled', false)
cluster1Config.setting('xpack.ml.enabled', false)

List<NodeInfo> cluster1Nodes = ClusterFormationTasks.setup(project, 'clusterOne', setupClusterOne, custom1Config)

task setupClusterTwo {}
ClusterConfiguration cluster2Config = new ClusterConfiguration(project)
custom2Config.clusterName = 'cluster2'
custom2Config.setting('node.name', 'cluster2-node1')
// x-pack
cluster2Config.setting('xpack.monitoring.enabled', false)
cluster2Config.setting('xpack.security.enabled', false)
cluster2Config.setting('xpack.watcher.enabled', false)
cluster2Config.setting('xpack.graph.enabled', false)
cluster2Config.setting('xpack.ml.enabled', false)

List<NodeInfo> cluster2Nodes = ClusterFormationTasks.setup(project, 'clusterTwo', setupClusterTwo, custom2Config)

integTestCluster{
dependsOn setupClusterOne, setupClusterTwo
setting 'node.name', 'tribe-node'
setting 'tribe.on_conflict', 'prefer_cluster1'
setting 'tribe.cluster1.cluster.name', 'cluster1'
setting 'tribe.cluster1.discovery.zen.ping.unicast.hosts', "${-> cluster1Nodes.get(0).transportUri()}'
setting 'tribe.cluster1.http.enabled', true'
setting 'tribe.cluster1.http.port', '0'
setting 'tribe.cluster1.transport.tcp.port', '0'
setting 'tribe.cluster1.xpack.monitoring.enabled', false
setting 'tribe.cluster1.xpack.security.enabled', false
setting 'tribe.cluster1.xpack.watcher.enabled', false
setting 'tribe.cluster1.xpack.graph.enabled', false
setting 'tribe.cluster1.xpack.ml.enabled', false
setting 'tribe.cluster1.xpack.license.self_generated.type', 'trial'
setting 'tribe.cluster2.cluster.name', 'cluster2'
setting 'tribe.cluster2.discovery.zen.ping.unicast.hosts', "${-> cluster2Nodes.get(0).transportUri()}'
setting 'tribe.cluster2.http.enabled', true'
setting 'tribe.cluster2.http.port', '0'
setting 'tribe.cluster2.transport.tcp.port', '0'
setting 'tribe.cluster2.xpack.monitoring.enabled', false
setting 'tribe.cluster2.xpack.security.enabled', false
setting 'tribe.cluster2.xpack.watcher.enabled', false
setting 'tribe.cluster2.xpack.graph.enabled', false
setting 'tribe.cluster2.xpack.ml.enabled', false
setting 'tribe.cluster2.xpack.license.self_generated.type', 'trial'

// x-pack
setting 'xpack.monitoring.enabled', false
setting 'xpack.monitoring.enabled', false
setting 'xpack.security.enabled', false
setting 'xpack.watcher.enabled', false
setting 'xpack.graph.enabled', false
setting 'xpack.ml.enabled', false
setting 'xpack.license.self_generated.type', 'trial'
waitCondition = { node, ant ->
    File tmpFile = new File(node.cwd, 'wait.success')
    // 5 nodes: tribe + clusterOne (1 node + tribe internal node) + clusterTwo (1 node + tribe internal node)
        dest: tmpFile.toString(), 
        ignoreerrors: true, 
        retries: 10)
    return tmpFile.exists()
}

integTestRunner {

/*
* We have to disable setting the number of available processors as tests in the same JVM randomize processors and will step on each
* other if we allow them to set the number of available processors as it’s set-once in Netty.

```java
systemProperty 'es.set.netty.runtime.available.processors', 'false'
systemProperty 'tests.cluster', "${-> cluster1Nodes.get(0).transportUri()}")
systemProperty 'tests.cluster2', "${-> cluster2Nodes.get(0).transportUri()})"
systemProperty 'tests.tribe', "${-> integTest.nodes.get(0).transportUri()})"
finalizedBy 'clusterOne#stop'
finalizedBy 'clusterTwo#stop'
```

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*/

package org.elasticsearch.test;

import org.elasticsearch.Build;
import org.elasticsearch.common.bytes.BytesArray;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.transport.TransportAddress;
import org.elasticsearch.common.xcontent.XContentType;
import org.elasticsearch.license.GetLicenseResponse;
import org.elasticsearch.license.License;
import org.elasticsearch.license.LicensesStatus;
import org.elasticsearch.license.LicensingClient;
import org.elasticsearch.license.License.PutLicenseResponse;
import org.elasticsearch.license.LicensingClient.Plugin;
import org.elasticsearch.xpack.core.LocalStateCompositeXPackPlugin;
import org.elasticsearch.xpack.core.XPackPlugin;
import org.elasticsearch.xpack.core.XPackSettings;
import org.junit.AfterClass;
import java.io.IOException;
import java.net.InetAddress;
import java.net.InetSocketAddress;
import java.net.URL;
import java.nio.charset.StandardCharsets;
import java.util.Collection;
import java.util.Collections;
import static org.hamcrest.CoreMatchers.equalTo;

public class LicensingTribeIT extends ESIntegTestCase {
    private static TestCluster cluster2;
    private static TestCluster tribeNode;

    import org.elasticsearch.Build;
    import org.elasticsearch.common.bytes.BytesArray;
    import org.elasticsearch.common.settings.Settings;
    import org.elasticsearch.common.transport.TransportAddress;
    import org.elasticsearch.common.xcontent.XContentType;
    import org.elasticsearch.license.GetLicenseResponse;
    import org.elasticsearch.license.License;
    import org.elasticsearch.license.LicensesStatus;
    import org.elasticsearch.license.LicensingClient;
    import org.elasticsearch.license.License.PutLicenseResponse;
    import org.elasticsearch.license.LicensingClient.Plugin;
    import org.elasticsearch.xpack.core.LocalStateCompositeXPackPlugin;
    import org.elasticsearch.xpack.core.XPackPlugin;
    import org.elasticsearch.xpack.core.XPackSettings;
    import org.junit.AfterClass;
    import java.io.IOException;
    import java.net.InetAddress;
    import java.net.InetSocketAddress;
    import java.net.URL;
    import java.nio.charset.StandardCharsets;
    import java.util.Collection;
    import java.util.Collections;
    import static org.hamcrest.CoreMatchers.equalTo;

    public class LicensingTribeIT extends ESIntegTestCase {
        private static TestCluster cluster2;
        private static TestCluster tribeNode;

```java
```
@Override
protected Collection<Class<? extends Plugin>> nodePlugins() {
    return Collections.singletonList(XPackPlugin.class);
}

@Override
protected Collection<Class<? extends Plugin>> transportClientPlugins() {
    return Collections.singletonList(LocalStateCompositeXPackPlugin.class);
}

@Override
public void setUp() throws Exception {
    super.setUp();
    if (cluster2 == null) {
        cluster2 = buildExternalCluster(System.getProperty("tests.cluster2"));
    }
    if (tribeNode == null) {
        tribeNode = buildExternalCluster(System.getProperty("tests.tribe"));
    }
}

@Override
protected Settings nodeSettings(int nodeOrdinal) {
    Settings.Builder builder = Settings.builder();
    builder.put(super.nodeSettings(nodeOrdinal));
    return builder.build();
}

@AfterClass
public static void tearDownExternalClusters() throws IOException {
    if (cluster2 != null) {
        try {
            cluster2.close();
        } finally {
            cluster2 = null;
        }
    }
    if (tribeNode != null) {
        try {
            tribeNode.close();
        } finally {
            tribeNode = null;
        }
    }
}

@Override
protected Settings externalClusterClientSettings() {

Settings.Builder builder = Settings.builder();
builder.put(XPackSettings.SECURITY_ENABLED.getKey(), false);
builder.put(XPackSettings.MONITORING_ENABLED.getKey(), false);
builder.put(XPackSettings.WATCHER_ENABLED.getKey(), false);
builder.put(XPackSettings.GRAPH_ENABLED.getKey(), false);
builder.put(XPackSettings.MACHINE_LEARNING_ENABLED.getKey(), false);
return builder.build();
}

private ExternalTestCluster buildExternalCluster(String clusterAddresses) throws IOException {
    String[] stringAddresses = clusterAddresses.split(",");
    TransportAddress[] transportAddresses = new TransportAddress[stringAddresses.length];
    int i = 0;
    for (String stringAddress : stringAddresses) {
        URL url = new URL("http://" + stringAddress);
        InetAddress inetAddress = InetAddress.getByName(url.getHost());
        transportAddresses[i++] = new TransportAddress(new InetSocketAddress(inetAddress, url.getPort()));
    }
    return new ExternalTestCluster(createTempDir(), externalClusterClientSettings(), transportClientPlugins(),
    transportAddresses);
}

public void testLicensePropagateToTribeNode() throws Exception {
    assumeTrue("License is only valid when tested against snapshot/test keys", Build.CURRENT.isSnapshot());
    // test that auto-generated basic license propagates to tribe
    assertBusy(() -> {
        GetLicenseResponse getLicenseResponse = new LicensingClient(tribeNode.client()).prepareGetLicense().get();
        assertNotNull(getLicenseResponse.license());
        assertThat(getLicenseResponse.license().operationMode(), equalTo(License.OperationMode.BASIC));
    });
    // test that signed license with higher operation mode takes precedence
    LicensingClient cluster2Client = new LicensingClient(cluster2.client());
    PutLicenseResponse licenseResponse = cluster2Client
    .preparePutLicense(License.fromSource(new BytesArray(PLATINUM_LICENSE.getBytes(StandardCharsets.UTF_8)), XContentType.JSON))
    .setAcknowledge(true).get();
    assertThat(licenseResponse.isAcknowledged(), equalTo(true));
    assertThat(licenseResponse.status(), equalTo(LicensesStatus.VALID));
    assertBusy(() -> {
        GetLicenseResponse getLicenseResponse = new LicensingClient(tribeNode.client()).prepareGetLicense().get();
        assertNotNull(getLicenseResponse.license());
        assertThat(getLicenseResponse.license().operationMode(), equalTo(License.OperationMode.PLATINUM));
    });
    // test removing signed license falls back works
assertTrue(cluster2Client.prepareDeleteLicense().get().isAcknowledged());
assertBusy() -> {
    GetLicenseResponse getLicenseResponse = new LicensingClient(tribeNode.client()).prepareGetLicense().get();
    assertNotNull(getLicenseResponse.license());
    assertThat(getLicenseResponse.license().operationMode(), equalTo(License.OperationMode.BASIC));
}
}

public void testDummy() throws Exception {
    // this test is here so that testLicensePropagateToTribeNode's assumption
    // doesn't result in this test suite to have no tests run and trigger a build failure
}

private static final String PLATINUM_LICENSE = "{"license":{"uid":"1","type":"platinum","issue_date_in_millis":1411948800000,"expiry_date_in_millis":1914278399999,"max_nodes":1,"issued_to":"issuedTo","issuer":"issuer","signature":"AAAAAwAAAA2hWlkvKcxQIpdVWd3CtAAABmC9ZN0hjZDBGYnVyRXpCOW5Bb3FjZDAxOWpShTV0MVZwUxRxVk1","issue_date_in_millis":1411948800000,"expiry_date_in_millis":1914278399999,"max_nodes":1,"issued_to":"issuedTo","issuer":"issuer","signature":"AAAAAwAAAA2hWlkvKcxQIpdVWd3CtAAABmC9ZN0hjZDBGYnVyRXpCOW5Bb3FjZDAxOWpShTV0MVZwUxRxVk1","issue_date_in_millis":1411948800000,"expiry_date_in_millis":1914278399999,"max_nodes":1,"issued_to":"issuedTo","issuer":"issuer","signature":"AAAAAwAAAA2hWlkvKcxQIpdVWd3CtAAABmC9ZN0hjZDBGYnVyRXpCOW5Bb3FjZDAxOWpShTV0MVZwUxRxVk1","issue_date_in_millis":1411948800000,"expiry_date_in_millis":1914278399999,"max_nodes":1,"issued_to":"issuedTo","issuer":"issuer","signature":"AAAAAwAAAA2hWlkvKcxQIpdVWd3CtAAABmC9ZN0hjZDBGYnVyRXpCOW5Bb3FjZDAxOWpShTV0MVZwUxRxVk1","issue_date_in_millis":1411948800000,"expiry_date_in_millis":1914278399999,"max_nodes":1,"issued_to":"issuedTo","issuer":"issuer","signature":"AAAAAwAAAA2hWlkvKcxQIpdVWd3CtAAABmC9ZN0hjZDBGYnVyRXpCOW5Bb3FjZDAxOWpShTV0MVZwUxRxVk1","issue_date_in_millis":1411948800000,"expiry_date_in_millis":1914278399999,"max_nodes":1,"issued_to":"issuedTo","issuer":"issuer","signature":"AAAAAwAAAA2hWlkvKcxQIpdVWd3CtAAABmC9ZN0hjZDBGYnVyRXpCOW5Bb3FjZDAxOWpShTV0MVZwUxRxVk1","issue_date_in_millis":1411948800000,"expiry_date_in_millis":1914278399999,"max_nodes":1,"issued_to":"issuedTo","issuer":"issuer","signature":"AAAAAwAAAA2hWlkvKcxQIpdVWd3CtAAABmC9ZN0hjZDBGYnVyRXpCOW5Bb3FjZDAxOWpShTV0MVZwUxRxVk1"}};"*/

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*/

package org.elasticsearch.xpack.monitoring;

import org.elasticsearch.action.admin.cluster.node.info.NodeInfo;NodeInfo;
import org.elasticsearch.action.admin.cluster.node.info.NodeInfo;
import org.elasticsearch.xpack.common.settings.Settings;
import org.elasticsearch.env.Environment;
import org.elasticsearch.node.MockNode;
import org.elasticsearch.node.Node;
import org.elasticsearch.plugins.Plugin;
import org.elasticsearch.plugins.PluginInfo;
import org.elasticsearch.test.EIntegTestCase.ClusterScope;
import org.elasticsearch.test.discovery.TestZenDiscovery;
import org.elasticsearch.tribe.TribePlugin;
import org.elasticsearch.xpack.core.XPackSettings;
import org.elasticsearch.xpack.monitoring.test.MonitoringIntegTestCase;

import java.nio.file.Path;
import java.util.ArrayList;
import java.util.Collection;
import java.util.function.Function;
import static org.elasticsearch.test.EIntegTestCase.Scope.TEST;
import static org.hamcrest.Matchers.equalTo;

@ClusterScope(scope = TEST, transportClientRatio = 0, numClientNodes = 0, numDataNodes = 0)
public class MonitoringPluginTests extends MonitoringIntegTestCase {

public MonitoringPluginTests() throws Exception {
    super();
}

@Override
protected void startMonitoringService() {
    // do nothing as monitoring is sometime unbound
}

@Override
protected void stopMonitoringService() {
    // do nothing as monitoring is sometime unbound
}

@Override
protected boolean addTestZenDiscovery() {
    return false;
}

public static class TribeAwareTestZenDiscoveryPlugin extends TestZenDiscovery.TestPlugin {

    public TribeAwareTestZenDiscoveryPlugin(Settings settings) {
        super(settings);
    }

    @Override
    public Settings additionalSettings() {
    }

    public static class TribeAwareTestZenDiscoveryPlugin extends TestZenDiscovery.TestPlugin {
if (settings.getGroups("tribe", true).isEmpty()) {
    return super.additionalSettings();
} else {
    return Settings.EMPTY;
}
}

public static class MockTribePlugin extends TribePlugin {

    public MockTribePlugin(Settings settings) {
        super(settings);
    }

    protected Function<Settings, Node> nodeBuilder(Path configPath) {
        return settings -> new MockNode(new Environment(settings, configPath), internalCluster().getPlugins());
    }

    @Override
    protected Collection<Class<? extends Plugin>> nodePlugins() {
        ArrayList<Class<? extends Plugin>> plugins = new ArrayList<>(super.nodePlugins);
        plugins.add(MockTribePlugin.class);
        plugins.add(TribeAwareTestZenDiscoveryPlugin.class);
        return plugins;
    }

    @Override
    protected Settings nodeSettings(int nodeOrdinal) {
        return Settings.builder()
                .put(super.nodeSettings(nodeOrdinal))
                .put(MonitoringService.INTERVAL.getKey(), "-1")
                .put(XPackSettings.SECURITY_ENABLED.getKey(), false)
                .put(XPackSettings.WATCHER_ENABLED.getKey(), false)
                .build();
    }

    @Override
    protected Settings transportClientSettings() {
        return Settings.builder()
                .put(super.transportClientSettings())
                .put(XPackSettings.SECURITY_ENABLED.getKey(), false)
                .build();
    }

    public void testMonitoringEnabled() {
        internalCluster().startNode(Settings.builder()
private void assertPluginIsLoaded() {
  NodesInfoResponse response = client().admin().cluster().prepareNodesInfo().setPlugins(true).get();
  for (NodeInfo nodeInfo : response.getNodes()) {
    assertNotNull(nodeInfo.getPlugins());
    boolean found = false;
    for (PluginInfo plugin : nodeInfo.getPlugins().getPluginInfos()) {
      assertNotNull(plugin);
      if (LocalStateMonitoring.class.getName().equals(plugin.getName())) {
        found = true;
        break;
      }
    }
    assertThat("xpack plugin not found", found, equalTo(true));
  }
}

private void assertServiceIsBound(Class<?> klass) {
  // Implementation
try {
    Object binding = internalCluster().getDataNodeInstance(klass);
    assertNotNull(binding);
    assertTrue(klass.isInstance(binding));
} catch (Exception e) {
    fail("no service bound for class " + klass.getSimpleName());
}

private void assertServiceIsNotBound(Class<?> klass) {
    try {
        // it should be bound, but directly as null
        assertNull(internalCluster().getDataNodeInstance(klass));
    } catch (Exception ce) {
        assertThat("message contains error about missing implementation: ", ce.getMessage().contains("Could not find a suitable constructor"), equalTo(true));
    }
}
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*/
package org.elasticsearch.xpack.monitoring;

import org.elasticsearch.client.Client;
import org.elasticsearch.license.TribeTransportTestCase;
import org.elasticsearch.xpack.core.XPackField;
import org.elasticsearch.xpack.core.monitoring.action.MonitoringBulkAction;
import org.elasticsearch.xpack.core.monitoring.action.MonitoringBulkRequest;
import java.util.Collections;
import java.util.List;

public class MonitoringTribeTests extends TribeTransportTestCase {

    @Override
    protected List<String> enabledFeatures() {
        return Collections.singletonList(XPackField.MONITORING);
    }

    @Override
    protected void verifyActionOnClientNode(Client client) throws Exception {
        assertMonitoringTransportActionsWorks(client);
    }

    @Override
    protected void verifyIndexActionOnClientNode(Client client) throws Exception {
        // just a stub
    }
}
protected void verifyActionOnMasterNode(Client masterClient) throws Exception {
    assertMonitoringTransportActionsWorks(masterClient);
}

@Override
protected void verifyActionOnDataNode(Client dataNodeClient) throws Exception {
    assertMonitoringTransportActionsWorks(dataNodeClient);
}

private static void assertMonitoringTransportActionsWorks(Client client) throws Exception {
    client.execute(MonitoringBulkAction.INSTANCE, new MonitoringBulkRequest());
}

@Override
protected void verifyActionOnTribeNode(Client tribeClient) {
    failAction(tribeClient, MonitoringBulkAction.INSTANCE);
}

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 */
package org.elasticsearch.xpack;

import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.license.LicenseService;
import org.elasticsearch.license.XPackLicenseState;
import org.elasticsearch.xpack.core.LocalStateCompositeXPackPlugin;
import org.elasticsearch.xpack.core.ssl.SSLService;
import org.elasticsearch.xpack.deprecation.Deprecation;
import org.elasticsearch.xpack.graph.Graph;
import org.elasticsearch.xpack.logstash.Logstash;
import org.elasticsearch.xpack.ml.MachineLearning;
import org.elasticsearch.xpack.monitoring.Monitoring;
import org.elasticsearch.xpack.security.Security;
import org.elasticsearch.xpack.watcher.Watcher;
import java.nio.file.Path;

public class CompositeTestingXPackPlugin extends LocalStateCompositeXPackPlugin {

    public CompositeTestingXPackPlugin(final Settings settings, final Path configPath) throws Exception {
        super(settings, configPath);
        CompositeTestingXPackPlugin thisVar = this;
        plugins.add(new Deprecation());
        plugins.add(new Graph(settings));
        plugins.add(new Logstash(settings));
    }
plugins.add(new MachineLearning(settings, configPath) {
    @Override
    protected XPackLicenseState getLicenseState() {
        return super.getLicenseState();
    }
});

plugins.add(new Monitoring(settings) {
    @Override
    protected SSLService getSslService() {
        return thisVar.getSslService();
    }
    @Override
    protected LicenseService getLicenseService() {
        return thisVar.getLicenseService();
    }
    @Override
    protected XPackLicenseState getLicenseState() {
        return thisVar.getLicenseState();
    }
});

plugins.add(new Watcher(settings) {
    @Override
    protected SSLService getSslService() {
        return thisVar.getSslService();
    }
    @Override
    protected LicenseService getLicenseService() {
        return thisVar.getLicenseService();
    }
    @Override
    protected XPackLicenseState getLicenseState() {
        return thisVar.getLicenseState();
    }
});

plugins.add(new Security(settings, configPath) {
    @Override
    protected SSLService getSslService() {
        return thisVar.getSslService();
    }
    @Override
    protected LicenseService getLicenseService() {
        return thisVar.getLicenseService();
    }
    @Override
    protected XPackLicenseState getLicenseState() {
        return thisVar.getLicenseState();
    }
});

/**************************************************************************/

package org.elasticsearch.license;

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 */
import org.elasticsearch.client.Client;
import org.elasticsearch.common.unit.TimeValue;

import static org.elasticsearch.license.TestUtils.generateSignedLicense;

public class LicenseTribeTests extends TribeTransportTestCase {

    @Override
    protected void verifyActionOnClientNode(Client client) throws Exception {
        assertLicenseTransportActionsWorks(client);
    }

    @Override
    protected void verifyActionOnMasterNode(Client masterClient) throws Exception {
        assertLicenseTransportActionsWorks(masterClient);
    }

    @Override
    protected void verifyActionOnDataNode(Client dataNodeClient) throws Exception {
        assertLicenseTransportActionsWorks(dataNodeClient);
    }

    private static void assertLicenseTransportActionsWorks(Client client) throws Exception {
        client.execute(GetLicenseAction.INSTANCE, new GetLicenseRequest()).get();
        client.execute(PutLicenseAction.INSTANCE, new PutLicenseRequest()
                .license(generateSignedLicense(TimeValue.timeValueHours(1))));
        client.execute(DeleteLicenseAction.INSTANCE, new DeleteLicenseRequest());
    }

    @Override
    protected void verifyActionOnTribeNode(Client tribeClient) throws Exception {
        // The get licence action should work, but everything else should fail
        tribeClient.execute(GetLicenseAction.INSTANCE, new GetLicenseRequest()).get();
        failAction(tribeClient, PutLicenseAction.INSTANCE);
        failAction(tribeClient, DeleteLicenseAction.INSTANCE);
    }
}

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 */

package org.elasticsearch.license;

import org.elasticsearch.action.Action;
import org.elasticsearch.action.admin.cluster.health.ClusterHealthResponse;
import org.elasticsearch.action.admin.cluster.node.info.NodeInfo;
import org.elasticsearch.action.admin.cluster.node.info.NodesInfoResponse;
import org.elasticsearch.action.admin.cluster.node.info.CommonAnalysisPlugin;
import org.elasticsearch.client.Client;
import org.elasticsearch.client.Requests;
import org.elasticsearch.cluster.health.ClusterHealthStatus;
import org.elasticsearch.cluster.node.DiscoveryNode;
import org.elasticsearch.cluster.node.DiscoveryNodes;
import org.elasticsearch.elasticsearch.common.Priority;
import org.elasticsearch.common.UUDs;
import org.elasticsearch.common.network.NetworkModule;
import org.elasticsearch.common.common.settings.Settings;
import org.elasticsearch.common.network.TransportAddress;
import org.elasticsearch.discovery.zen.UnicastZenPing;
import org.elasticsearch.env.Environment;
import org.elasticsearch.node.MockNode;
import org.elasticsearch.plugins.Plugin;
import org.elasticsearch.test.ESIntegTestcase;
import org.elasticsearch.test.ESIntegTestcase.ClusterScope;
import org.elasticsearch.test.ESIntegTestcase.Scope;
import org.elasticsearch.test.InternalTestCluster;
import org.elasticsearch.test.NodeConfigurationSource;
import org.elasticsearch.test.TestCluster;
import org.elasticsearch.test.discovery.TestZenDiscovery;
import org.elasticsearch.tribe.TribePlugin;
import org.elasticsearch.xpack.CompositeTestingXPackPlugin;
import org.elasticsearch.xpack.core.XPackClientPlugin;
import org.elasticsearch.xpack.core.XPackPlugin;
import org.elasticsearch.xpack.core.XPackSettings;
import org.elasticsearch.xpack.core.XPackField;
import org.elasticsearch.xpack.deprecation.Deprecation;
import org.elasticsearch.xpack.graph.Graph;
import org.elasticsearch.xpack.logstash.Logstash;
import org.elasticsearch.xpath.core.ml.MachineLearning;
import org.elasticsearch.xpath.core.ml.MachineLearningField;
import org.elasticsearch.xpath.monitoring.Monitoring;
import org.elasticsearch.xpath.security.Security;
import org.elasticsearch.xpath.upgrade.Upgrade;
import org.elasticsearch.xpath.watcher.Watcher;

import java.nio.file.Path;
import java.util.ArrayList;
import java.util.Arrays;
import java.util.Collection;
import java.util.Collections;
import java.util.List;
import java.util.function.Function;
import static org.elasticsearch.test.hamcrest.ElasticsearchAssertions.assertAcked;
import static org.hamcrest.Matchers.anyOf;
import static org.hamcrest.Matchers.containsString;
import static org.hamcrest.Matchers.equalTo;

@ClusterScope(scope = Scope.TEST, transportClientRatio = 0, numClientNodes = 1, numDataNodes = 2)
public abstract class TribeTransportTestCase extends ESIntegTestCase {

    protected List<String> enabledFeatures() {
        return Collections.emptyList();
    }

    @Override
    protected final Settings nodeSettings(int nodeOrdinal) {
        final Settings.Builder builder = Settings.builder()
                .put(NetworkModule.HTTP_ENABLED.getKey(), false)
                .put("transport.type", getTestTransportType());
        List<String> enabledFeatures = enabledFeatures();
        builder.put(XPackSettings.SECURITY_ENABLED.getKey(),
                enabledFeatures.contains(XPackField.SECURITY));
        builder.put(XPackSettings.MONITORING_ENABLED.getKey(),
                enabledFeatures.contains(XPackField.MONITORING));
        builder.put(XPackSettings.WATCHER.Enabled.getKey(),
                enabledFeatures.contains(XPackField.WATCHER));
        builder.put(XPackSettings.GRAPH_ENABLED.getKey(), enabledFeatures.contains(XPackField.GRAPH));
        builder.put(XPackSettings.MACHINE_LEARNING_ENABLED.getKey(),
                enabledFeatures.contains(XPackField.MACHINE_LEARNING));
        builder.put(MachineLearningField.AUTODETECT_PROCESS.getKey(), false);
        return builder.build();
    }

    @Override
    protected boolean ignoreExternalCluster() {
        return true;
    }

    @Override
    protected boolean addTestZenDiscovery() {
        return false;
    }

    public static class TribeAwareTestZenDiscoveryPlugin extends TestZenDiscovery.TestPlugin {
        public TribeAwareTestZenDiscoveryPlugin(Settings settings) {
            super(settings);
        }
    }
}
public Settings additionalSettings() {
    if (settings.getGroups("tribe", true).isEmpty()) {
        return super.additionalSettings();
    } else {
        return Settings.EMPTY;
    }
}

public static class MockTribePlugin extends TribePlugin {

    public MockTribePlugin(Settings settings) {
        super(settings);
    }

    protected Function<Settings, Node> nodeBuilder(Path configPath) {
        return settings -> new MockNode(new Environment(settings, configPath), internalCluster().getPlugins());
    }

    @Override
    protected Collection<Class<? extends Plugin>> nodePlugins() {
        ArrayList<Class<? extends Plugin>> plugins = new ArrayList<>();
        plugins.add(MockTribePlugin.class);
        plugins.add(TribeAwareTestZenDiscoveryPlugin.class);
        plugins.add(CompositeTestingXPackPlugin.class);
        plugins.add(CommonAnalysisPlugin.class);
        return plugins;
    }

    @Override
    protected final Collection<Class<? extends Plugin>> transportClientPlugins() {
        ArrayList<Class<? extends Plugin>> plugins = new ArrayList<>();
        plugins.add(MockTribePlugin.class);
        plugins.add(TribeAwareTestZenDiscoveryPlugin.class);
        plugins.add(XPackClientPlugin.class);
        plugins.add(CommonAnalysisPlugin.class);
        return plugins;
    }

    public void testTribeSetup() throws Exception {
        NodeConfigurationSource nodeConfigurationSource = new NodeConfigurationSource() {
            @Override
            public Settings nodeSettings(int nodeOrdinal) {
                return TribeTransportTestCase.this.nodeSettings(nodeOrdinal);
            }
        };

        @Override
        public Settings nodeSettings(int nodeOrdinal) {
            return TribeTransportTestCase.this.nodeSettings(nodeOrdinal);
        }
    }
}
public Path nodeConfigPath(int nodeOrdinal) {
    return null;
}

@Override
public Collection<? extends Plugin> nodePlugins() {
    return TribeTransportTestCase.this.nodePlugins();
}

@Override
public Settings transportClientSettings() {
    return TribeTransportTestCase.this.transportClientSettings();
}

@Override
public Collection<? extends Plugin> transportClientPlugins() {
    return TribeTransportTestCase.this.transportClientPlugins();
}
}

final InternalTestCluster cluster2 = new InternalTestCluster(
    randomLong(), createTempDir(), true, true, 2, 2,
    UUIDs.randomBase64UUID(random()), nodeConfigurationSource, 1, false, "tribe_node2",
    getMockPlugins(), getClientWrapper());

cluster2.beforeTest(random(), 0.0);

logger.info("create 2 indices, test1 on t1, and test2 on t2");
assertAcked(internalCluster().client().admin().indices().prepareCreate("test1").get());
assertAcked(cluster2.client().admin().indices().prepareCreate("test2").get());
ensureYellow(internalCluster());
ensureYellow(cluster2);

//        Map<String,String> asMap = internalCluster().getDefaultSettings().getAsMap();
Settings.Builder tribe1Defaults = Settings.builder();
Settings.Builder tribe2Defaults = Settings.builder();
internalCluster().getDefaultSettings().keySet().forEach(k -> {
    if (k.startsWith("path.")) {
        tribe1Defaults.copy(k, internalCluster().getDefaultSettings());
        tribe2Defaults.copy(k, internalCluster().getDefaultSettings());
    }
});
tribe1Defaults.normalizePrefix("tribe.t1.");
tribe2Defaults.normalizePrefix("tribe.t2.");
// give each tribe it's unicast hosts to connect to
tribe1Defaults.putList("tribe.t1." +
    UnicastZenPing.DISCOVERY_ZEN_PING_UNICAST_HOSTS_SETTING.getKey(),
    getUnicastHosts(internalCluster().client()));
tribe1Defaults.putList("tribe.t2." +
    UnicastZenPing.DISCOVERY_ZEN_PING_UNICAST_HOSTS_SETTING.getKey(),
    getUnicastHosts(internalCluster().client()));
getUnicastHosts(cluster2.client()));

Settings merged = Settings.builder()
    .put("tribe.t1.cluster.name", internalCluster().getClusterName())
    .put("tribe.t2.cluster.name", cluster2.getClusterName())
    .put("tribe.t1.transport.tcp.port", 0)
    .put("tribe.t2.transport.tcp.port", 0)
    .put("tribe.t1.transport.type", getTestTransportType())
    .put("tribe.t2.transport.type", getTestTransportType())
    .put("tribe.blocks.write", false)
    .put(tribe1Defaults.build())
    .put(tribe2Defaults.build())
    .put(NetworkModule.HTTP_ENABLED.getKey(), false)
    .put(internalCluster().getDefaultSettings())
    .put(XPackSettings.SECURITY_ENABLED.getKey(), false) // otherwise it conflicts with mock transport
    .put(XPackSettings.MACHINE_LEARNING_ENABLED.getKey(), false)
    .put(MachineLearningField.AUTO_DETECT_PROCESS.get_key(), false)
    .put("tribe.t1." + XPackSettings.SECURITY_ENABLED.getKey(), false)
    .put("tribe.t2." + XPackSettings.MACHINE_LEARNING_ENABLED.getKey(), false)
    .put("tribe.t1." + XPackSettings.MACHINE_LEARNING_ENABLED.getKey(), false)
    .put("tribe.t2." + XPackSettings.MACHINE_LEARNING_ENABLED.getKey(), false)
    .put("tribe.t1." + XPackSettings.AUTO_DETECT_PROCESS.getKey(), false)
    .put("tribe.t2." + XPackSettings.AUTO_DETECT_PROCESS.getKey(), false)
    .put("tribe.t1." + XPackSettings.AUTO_DETECT_PROCESS.getKey(), false)
    .put("tribe.t2." + XPackSettings.AUTO_DETECT_PROCESS.getKey(), false)
    .put("node.name", "tribe_node") // make sure we can identify threads from this node
    .put("transport.type", getTestTransportType())
    .build();

final List<Class<? extends Plugin>> mockPlugins = Arrays.asList(MockTribePlugin.class,
    TribeAwareTestZenDiscoveryPlugin.class,
    getTestTransportPlugin(), Deprecation.class, Graph.class, Logstash.class, MachineLearning.class,
    Monitoring.class,
    Security.class, Upgrade.class, Watcher.class, XPackPlugin.class);
final Node tribeNode = new MockNode(merged, mockPlugins).start();
Client tribeClient = tribeNode.client();

logger.info("wait till tribe has the same nodes as the 2 clusters");
assertBusy(() -> {
    DiscoveryNodes tribeNodes = tribeNode.client().admin().cluster().prepareState().get().getNodes();
    assertThat(countDataNodesForTribe("t1", tribeNodes),
        equalTo(internalCluster().client().admin().cluster().prepareState().get().getNodes().size()));
    assertThat(countDataNodesForTribe("t2", tribeNodes),
        equalTo(cluster2.client().admin().cluster().prepareState().get().getNodes().size()));
});

logger.info(" --> verify transport actions for tribe node");
verifyActionOnTribeNode(tribeClient);
logger.info(" --> verify transport actions for data node");
verifyActionOnDataNode((randomBoolean() ? internalCluster() : cluster2).dataNodeClient());
logger.info(" --> verify transport actions for master node");
verifyActionOnMasterNode((randomBoolean() ? internalCluster() : cluster2).masterClient());
logger.info(" --> verify transport actions for client node");
verifyActionOnClientNode((randomBoolean() ? internalCluster() : cluster2).coordOnlyNodeClient());
try {
    cluster2.wipe(Collections.<String>emptySet());
} finally {
    cluster2.afterTest();
}
tribeNode.close();
cluster2.close();

/**
 * Verify transport action behaviour on client node
 */
protected abstract void verifyActionOnClientNode(Client client) throws Exception;

/**
 * Verify transport action behaviour on master node
 */
protected abstract void verifyActionOnMasterNode(Client masterClient) throws Exception;

/**
 * Verify transport action behaviour on data node
 */
protected abstract void verifyActionOnDataNode(Client dataNodeClient) throws Exception;

/**
 * Verify transport action behaviour on tribe node
 */
protected abstract void verifyActionOnTribeNode(Client tribeClient) throws Exception;

protected void failAction(Client client, Action action) {
    try {
        client.execute(action, action.newRequestBuilder(client).request());
        fail("expected ".concat(action.name()).concat(" to fail");
    } catch (IllegalStateException e) {
        assertThat(e.getMessage(), containsString("failed to find action"));
    }
}

private void ensureYellow(TestCluster testCluster) {
    ClusterHealthResponse actionGet = testCluster.client().admin().cluster()
        .health(Requests.clusterHealthRequest().waitForYellowStatus()
.waitForEvents(Priority.LANGUID).waitForNoRelocatingShards(true)).actionGet();
if (actionGet.isTimedOut()) {
    logger.info("ensureGreen timed out, cluster state:
    " + testCluster.client().admin().cluster()
            .prepareState().get().getState(),
    testCluster.client().admin().cluster().preparePendingClusterTasks().get());
    assertThat("timed out waiting for yellow state", actionGet.isTimedOut(), equalTo(false));
}
assertThat(actionGet.getStatus(), anyOf(equalTo(ClusterHealthStatus.YELLOW),
equalTo(ClusterHealthStatus.GREEN)));
}

private int countDataNodesForTribe(String tribeName, DiscoveryNodes nodes) {
    int count = 0;
    for (DiscoveryNode node : nodes) {
        if (!node.isDataNode()) {
            continue;
        }
        if (tribeName.equals(node.getAttributes().get("tribe.name"))) {
            count++;
        }
    }
    return count;
}

private static String[] getUnicastHosts(Client client) {
    ArrayList<String> unicastHosts = new ArrayList<>();
    NodesInfoResponse nodeInfos = client.admin().cluster().prepareNodesInfo().clear().setTransport(true).get();
    for (NodeInfo info : nodeInfos.getNodes()) {
        TransportAddress address = info.getTransport().getAddress().publishAddress();
        unicastHosts.add(address.getAddress() + ":" + address.getPort());
    }
    return unicastHosts.toArray(new String[unicastHosts.size()]);
}

apply plugin: 'elasticsearch.build'

dependencies {
    compile project(xpackModule('core'))
    compile "org.elasticsearch:elasticsearch:${version}"
    testCompile "org.elasticsearch.test:framework:${version}"
}

project.forbiddenPatterns {
    exclude '**/*.key'
}

dependencyLicenses.enabled = false
task buildZip(type: Zip, dependsOn: jar) {
    String parentDir = 'license-tools-$\{version\}'
    into(parentDir + '/lib') {
        from jar
        from configurations.runtime
    }
    into(parentDir + '/bin') {
        from 'bin'
    }
}

assemble.dependsOn buildZip

es.logger.level=INFO
log4j.rootLogger=${es.logger.level}, out
log4j.additivity.org.apache.http=false

log4j.logger.org.elasticsearch.license=TRACE

log4j.appender.out.org.apache.log4j.ConsoleAppender
log4j.appender.out.layout.org.apache.log4j.PatternLayout
log4j.appender.out.layout.conversionPattern=%d{ISO8601} [%-5p] [%-25c] %m%n

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 */

package org.elasticsearch.license.licensor;

import org.elasticsearch.common.unit.TimeValue;
import org.elasticsearch.license.DateUtils;
import org.elasticsearch.license.License;
import org.elasticsearch.license.LicenseVerifier;
import org.elasticsearch.test.ESTestCase;
import org.junit.After;
import org.junit.Before;
import java.nio.file.Files;
import java.nio.file.Path;

public class LicenseVerificationTests extends ESTestCase {

    protected Path pubKeyPath = null;
    protected Path priKeyPath = null;

    @Before
    public void setup() throws Exception {
        pubKeyPath = getDataPath("/public.key");
        priKeyPath = getDataPath("/private.key");
    }

    @After
    public void cleanUp() {
        pubKeyPath = null;
        priKeyPath = null;
    }

    public void testGeneratedLicenses() throws Exception {
        final TimeValue fortyEightHours = TimeValue.timeValueHours(2 * 24);
        final License license =
            TestUtils.generateSignedLicense(fortyEightHours, pubKeyPath, priKeyPath);
        assertTrue(LicenseVerifier.verifyLicense(license, Files.readAllBytes(pubKeyPath)));
    }

    public void testLicenseTampering() throws Exception {
        final TimeValue twoHours = TimeValue.timeValueHours(2);
        License license =
            TestUtils.generateSignedLicense(twoHours, pubKeyPath, priKeyPath);
        final License tamperedLicense = License.builder()
            .fromLicenseSpec(license, license.signature())
            .expiryDate(license.expiryDate() + 10 * 24 * 60 * 60 * 1000L)
            .validate()
            .build();

        assertFalse(LicenseVerifier.verifyLicense(tamperedLicense, Files.readAllBytes(pubKeyPath)));
    }

    public void testRandomLicenseVerification() throws Exception {

    }
TestUtils.LicenseSpec licenseSpec = TestUtils.generateRandomLicenseSpec(
    randomIntBetween(License.VERSION_START, License.VERSION_CURRENT));
License generatedLicense = generateSignedLicense(licenseSpec, pubKeyPath, priKeyPath);
assertTrue(LicenseVerifier.verifyLicense(generatedLicense, Files.readAllBytes(pubKeyPath)));
}

private static License generateSignedLicense(
    TestUtils.LicenseSpec spec, Path pubKeyPath, Path priKeyPath) throws Exception {
    LicenseSigner signer = new LicenseSigner(priKeyPath, pubKeyPath);
    License.Builder builder = License.builder()
        .uid(spec.uid)
        .feature(spec.feature)
        .type(spec.type)
        .subscriptionType(spec.subscriptionType)
        .issuedTo(spec.issuedTo)
        .issuer(spec.issuer)
        .maxNodes(spec.maxNodes);

    if (spec.expiryDate != null) {
        builder.expiryDate(DateUtils.endOfTheDay(spec.expiryDate));
    } else {
        builder.expiryDate(spec.expiryDateInMillis);
    }
    if (spec.issueDate != null) {
        builder.issueDate(DateUtils.beginningOfTheDay(spec.issueDate));
    } else {
        builder.issueDate(spec.issueDateInMillis);
    }
    builder.version(spec.version);
    return signer.sign(builder.build());
}

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 */
package org.elasticsearch.license.licensor;

import org.elasticsearch.common.Strings;
import org.elasticsearch.common.joda.DateMathParser;
import org.elasticsearch.common.joda.FormatDateTimeFormatter;
import org.elasticsearch.common.joda.Joda;
import org.elasticsearch.common.unit.TimeValue;
import org.elasticsearch.common.xcontent.ToXContent;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.common.xcontent.XContentFactory;
public class TestUtils {

    public static final String PUBLIC_KEY_RESOURCE = "/public.key";
    public static final String PRIVATE_KEY_RESOURCE = "/private.key";

    private static final FormatDateTimeFormatter formatDateTimeFormatter =
            Joda.forPattern("yyyy-MM-dd");
    private static final DateMathParser dateMathParser =
            new DateMathParser(formatDateTimeFormatter);
    private static final DateTimeFormatter dateTimeFormatter = formatDateTimeFormatter.printer();

    public static String dumpLicense(License license) throws Exception {
        XContentBuilder builder = XContentFactory.contentBuilder(XContentType.JSON);
        builder.startObject();
        builder.startObject("license");
        license.toInnerXContent(builder, ToXContent.EMPTY_PARAMS);
        builder.endObject();
        builder.endObject();
        return Strings.toString(builder);
    }

    public static String dateMathString(String time, final long now) {
        return dateTimeFormatter.print(dateMathParser.parse(time, () -> now));
    }

    public static long dateMath(String time, final long now) {
        return dateMathParser.parse(time, () -> now);
    }

    public static LicenseSpec generateRandomLicenseSpec(int version) {
        return RandomizableLicenseSpec.randomLicenseSpec(version);
    }
}
boolean datesInMillis = randomBoolean();
long now = System.currentTimeMillis();
String uid = UUID.randomUUID().toString();
String issuer = "issuer__" + randomInt();
String issuedTo = "issuedTo__" + randomInt();
String type = version < License.VERSION_NO_FEATURE_TYPE ?
    randomFrom("subscription", "internal", "development") :
    randomFrom("basic", "silver", "dev", "gold", "platinum");
final String subscriptionType;
final String feature;
if (version < License.VERSION_NO_FEATURE_TYPE) {
    subscriptionType = randomFrom("gold", "silver", "platinum");
    feature = "feature__" + randomInt();
} else {
    subscriptionType = null;
    feature = null;
}
int maxNodes = randomIntBetween(5, 100);
if (datesInMillis) {
    long issueDateInMillis = dateMath("now", now);
    long expiryDateInMillis = dateMath("now+10d/d", now);
    return new LicenseSpec(
        version,
        uid,
        feature,
        issueDateInMillis,
        expiryDateInMillis,
        type,
        subscriptionType,
        issuedTo,
        issuer,
        maxNodes);
} else {
    String issueDate = dateMathString("now", now);
    String expiryDate = dateMathString("now+10d/d", now);
    return new LicenseSpec(
        version,
        uid,
        feature,
        issueDate,
        expiryDate, type,
        subscriptionType,
        issuedTo,
        issuer,
        maxNodes);
}
public static String generateLicenseSpecString(LicenseSpec licenseSpec) throws IOException {
    XContentBuilder licenses = jsonBuilder();
    licenses.startObject();
    licenses.startObject("license")
        .field("uid", licenseSpec.uid)
        .field("type", licenseSpec.type)
        .field("subscription_type", licenseSpec.subscriptionType)
        .field("issued_to", licenseSpec.issuedTo)
        .field("issuer", licenseSpec.issuer)
        .field("feature", licenseSpec.feature)
        .field("max_nodes", licenseSpec.maxNodes);
    if (licenseSpec.issueDate != null) {
        licenses.field("issue_date", licenseSpec.issueDate);
    } else {
        licenses.field("issue_date_in_millis", licenseSpec.issueDateInMillis);
    }
    if (licenseSpec.expiryDate != null) {
        licenses.field("expiry_date", licenseSpec.expiryDate);
    } else {
        licenses.field("expiry_date_in_millis", licenseSpec.expiryDateInMillis);
    }
    licenses.field("version", licenseSpec.version);
    licenses.endObject();
    licenses.endObject();
    return Strings.toString(licenses);
}

public static void assertLicenseSpec(LicenseSpec spec, License license) {
    MatcherAssert.assertThat(license.uid(), equalTo(spec.uid));
    MatcherAssert.assertThat(license.issuedTo(), equalTo(spec.issuedTo));
    MatcherAssert.assertThat(license.issuer(), equalTo(spec.issuer));
    MatcherAssert.assertThat(license.type(), equalTo(spec.type));
    MatcherAssert.assertThat(license.maxNodes(), equalTo(spec.maxNodes));
    if (spec.issueDate != null) {
        MatcherAssert.assertThat(
            license.issueDate(),
            equalTo(DateUtils.beginningOfTheDay(spec.issueDate)));
    } else {
        MatcherAssert.assertThat(license.issueDate(), equalTo(spec.issueDateInMillis));
    }
    if (spec.expiryDate != null) {
        MatcherAssert.assertThat(
            license.expiryDate(),
            equalTo(DateUtils.endOfTheDay(spec.expiryDate)));
    } else {
        MatcherAssert.assertThat(license.expiryDate(), equalTo(spec.expiryDateInMillis));
    }
}

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public static License generateSignedLicense(
    TimeValue expiryDuration, Path pubKeyPath, Path priKeyPath) throws Exception {
    long issue = System.currentTimeMillis();
    int version = ESTestCase.randomIntBetween(License.VERSION_START, License.VERSION_CURRENT);
    String type = version < License.VERSION_NO_FEATURE_TYPE ?
        randomFrom("subscription", "internal", "development") :
        randomFrom("trial", "basic", "silver", "dev", "gold", "platinum");
    final License.Builder builder = License.builder()
        .uid(UUID.randomUUID().toString())
        .expiryDate(issue + expiryDuration.getMillis())
        .issueDate(issue)
        .version(version)
        .type(type)
        .issuedTo("customer")
        .issuer("elasticsearch")
        .maxNodes(5);
    if (version == License.VERSION_START) {
        builder.subscriptionType(randomFrom("dev", "gold", "platinum", "silver");
        builder.feature(ESTestCase.randomAlphaOfLength(10));
    }
    LicenseSigner signer = new LicenseSigner(priKeyPath, pubKeyPath);
    return signer.sign(builder.build());
}

public static class LicenseSpec {
    public final int version;
    public final String feature;
    public final String issueDate;
    public final long issueDateInMillis;
    public final String expiryDate;
    public final long expiryDateInMillis;
    public final String uid;
    public final String type;
    public final String subscriptionType;
    public final String issuedTo;
    public final String issuer;
    public final int maxNodes;

    public LicenseSpec(
        int version,
        String uid,
        String feature,
        long issueDateInMillis,
        long expiryDateInMillis,
        String type,
        String subscriptionType,
    String issuedTo,
    String issuer,
    int maxNodes) {
        this.version = version;
        this.feature = feature;
        this.issueDateInMillis = issueDateInMillis;
        this.issueDate = null;
        this.expiryDateInMillis = expiryDateInMillis;
        this.expiryDate = null;
        this.uid = uid;
        this.type = type;
        this.subscriptionType = subscriptionType;
        this.issuedTo = issuedTo;
        this.issuer = issuer;
        this.maxNodes = maxNodes;
    }

    public LicenseSpec(
            int version,
            String uid,
            String feature,
            String issueDate,
            String expiryDate,
            String type,
            String subscriptionType,
            String issuedTo,
            String issuer,
            int maxNodes) {
        this.version = version;
        this.feature = feature;
        this.issueDate = issueDate;
        this.issueDateInMillis = -1;
        this.expiryDate = expiryDate;
        this.expiryDateInMillis = -1;
        this.uid = uid;
        this.type = type;
        this.subscriptionType = subscriptionType;
        this.issuedTo = issuedTo;
        this.issuer = issuer;
        this.maxNodes = maxNodes;
    }
    }

}
package org.elasticsearch.license.licensor.tools;

import org.elasticsearch.cli.Command;
import org.elasticsearch.cli.CommandTestCase;
import org.elasticsearch.cli.ExitCodes;
import org.elasticsearch.cli.UserException;
import org.elasticsearch.common.unit.TimeValue;
import org.elasticsearch.license.License;
import org.elasticsearch.license.licensor.TestUtils;
import org.junit.Before;

import java.nio.charset.StandardCharsets;
import java.nio.file.Files;
import java.nio.file.Path;

public class LicenseVerificationToolTests extends CommandTestCase {
    protected Path pubKeyPath = null;
    protected Path priKeyPath = null;

    @Before
    public void setup() throws Exception {
        logger.error("project.basedir [{}]", System.getProperty("project.basedir"));
        pubKeyPath = getDataPath(TestUtils.PUBLIC_KEY_RESOURCE);
        priKeyPath = getDataPath(TestUtils.PRIVATE_KEY_RESOURCE);
    }

    @Override
    protected Command newCommand() {
        return new LicenseVerificationTool();
    }

    public void testMissingKeyPath() throws Exception {
        Path pub = createTempDir().resolve("pub");
        UserException e = expectThrows(UserException.class, () -> execute("--publicKeyPath", pub.toString()));
        assertTrue(e.getMessage(), e.getMessage().contains("pub does not exist"));
        assertEquals(ExitCodes.USAGE, e.exitCode);
    }

    public void testMissingLicenseSpec() throws Exception {
        UserException e = expectThrows(UserException.class, () -> {
            execute("--publicKeyPath", pubKeyPath.toString());
        });
        assertTrue(e.getMessage(), e.getMessage().contains("Must specify either --license or --licenseFile"));
    }
}
assertEquals(ExitCodes.USAGE, e.exitCode);
}
public void testBrokenLicense() throws Exception {
final TimeValue oneHour = TimeValue.timeValueHours(1);
License signedLicense = TestUtils.generateSignedLicense(oneHour, pubKeyPath, priKeyPath);
License tamperedLicense = License.builder()
.fromLicenseSpec(signedLicense, signedLicense.signature())
.expiryDate(signedLicense.expiryDate() + randomIntBetween(1, 1000)).build();
UserException e = expectThrows(
UserException.class,
() -> execute(
"--publicKeyPath",
pubKeyPath.toString(),
"--license",
TestUtils.dumpLicense(tamperedLicense)));
assertEquals("Invalid License!", e.getMessage());
assertEquals(ExitCodes.DATA_ERROR, e.exitCode);
}
public void testLicenseSpecString() throws Exception {
final TimeValue oneHour = TimeValue.timeValueHours(1);
License signedLicense = TestUtils.generateSignedLicense(oneHour, pubKeyPath, priKeyPath);
String output = execute(
"--publicKeyPath",
pubKeyPath.toString(),
"--license",
TestUtils.dumpLicense(signedLicense));
assertFalse(output, output.isEmpty());
}
public void testLicenseSpecFile() throws Exception {
final TimeValue oneHour = TimeValue.timeValueHours(1);
License signedLicense = TestUtils.generateSignedLicense(oneHour, pubKeyPath, priKeyPath);
Path licenseSpecFile = createTempFile();
Files.write(
licenseSpecFile,
TestUtils.dumpLicense(signedLicense).getBytes(StandardCharsets.UTF_8));
String output = execute(
"--publicKeyPath",
pubKeyPath.toString(),
"--licenseFile",
licenseSpecFile.toString());
assertFalse(output, output.isEmpty());
}
}

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public class LicenseGenerationToolTests extends CommandTestCase {

    protected Path pubKeyPath = null;
    protected Path priKeyPath = null;

    @Before
    public void setup() throws Exception {
        pubKeyPath = getDataPath(TestUtils.PUBLIC_KEY_RESOURCE);
        priKeyPath = getDataPath(TestUtils.PRIVATE_KEY_RESOURCE);
    }

    @Override
    protected Command newCommand() {
        return new LicenseGeneratorTool();
    }

    public void testMissingKeyPaths() throws Exception {
        Path pub = createTempDir().resolve("pub");
        Path pri = createTempDir().resolve("pri");
        UserException e = expectThrows(
            UserException.class,
            () -> execute("--publicKeyPath", pub.toString(),
                          "--privateKeyPath", pri.toString()));
        assertTrue(e.getMessage(), e.getMessage().contains("pri does not exist");
    }
}
assertEquals(ExitCodes.USAGE, e.exitCode);

Files.createFile(pri);
e = expectThrows(
    UserException.class,
    () -> execute(
        "--publicKeyPath",
        pub.toString(),
        "--privateKeyPath",
        pri.toString()));
assertTrue(e.getMessage(), e.getMessage().contains("pub does not exist"));
assertEquals(ExitCodes.USAGE, e.exitCode);
}

public void testMissingLicenseSpec() throws Exception {
    UserException e = expectThrows(
        UserException.class,
        () -> execute(
            "--publicKeyPath",
            pubKeyPath.toString(),
            "--privateKeyPath",
            priKeyPath.toString()));
    assertTrue(
        e.getMessage(),
        e.getMessage().contains("Must specify either --license or --licenseFile");
    assertEquals(ExitCodes.USAGE, e.exitCode);
}

public void testLicenseSpecString() throws Exception {
    TestUtils.LicenseSpec inputLicenseSpec =
        TestUtils.generateRandomLicenseSpec(License.VERSION_CURRENT);
    String licenseSpecString = TestUtils.generateLicenseSpecString(inputLicenseSpec);
    String output = execute(
        "--publicKeyPath",
        pubKeyPath.toString(),
        "--privateKeyPath",
        priKeyPath.toString(),
        "--license",
        licenseSpecString);
    final BytesArray bytes = new.BytesArray(output.getBytes(StandardCharsets.UTF_8));
    License outputLicense = License.fromSource(bytes, XContentType.JSON);
    TestUtils.assertLicenseSpec(inputLicenseSpec, outputLicense);
}

public void testLicenseSpecFile() throws Exception {
    TestUtils.LicenseSpec inputLicenseSpec =
        TestUtils.generateRandomLicenseSpec(License.VERSION_CURRENT);
    String licenseSpecString = TestUtils.generateLicenseSpecString(inputLicenseSpec);
    String output = execute(
        "--publicKeyPath",
        pubKeyPath.toString(),
        "--privateKeyPath",
        priKeyPath.toString(),
        "--license",
        licenseSpecString);
    final BytesArray bytes = new.BytesArray(output.getBytes(StandardCharsets.UTF_8));
    License outputLicense = License.fromSource(bytes, XContentType.JSON);
    TestUtils.assertLicenseSpec(inputLicenseSpec, outputLicense);
}
Path licenseSpecFile = createTempFile();
Files.write(licenseSpecFile, licenseSpecString.getBytes(StandardCharsets.UTF_8));
String output = execute(
    "--publicKeyPath",
    pubKeyPath.toString(),
    "--privateKeyPath",
    priKeyPath.toString(),
    "--licenseFile",
    licenseSpecFile.toString());
final BytesArray bytes = new BytesArray(output.getBytes(StandardCharsets.UTF_8));
License outputLicense = License.fromSource(bytes, XContentType.JSON);
TestUtils.assertLicenseSpec(inputLicenseSpec, outputLicense);
dne.toString()));
assertThat(e.getMessage(), containsString("existing"));
assertEquals(ExitCodes.USAGE, e.exitCode);
e = expectThrows(
    UserException.class,
    () -> execute(
        "--publicKeyPath",
        dne.toString(),
        "--privateKeyPath",
        exists.toString()));
assertThat(e.getMessage(), containsString("existing"));
assertEquals(ExitCodes.USAGE, e.exitCode);
}

public void testTool() throws Exception {
    Path keysDir = createTempDir();
    Path publicKeyFilePath = keysDir.resolve("public");
    Path privateKeyFilePath = keysDir.resolve("private");

    execute(
        "--publicKeyPath",
        publicKeyFilePath.toString(),
        "--privateKeyPath",
        privateKeyFilePath.toString());
    assertTrue(publicKeyFilePath.toString(), Files.exists(publicKeyFilePath));
    assertTrue(privateKeyFilePath.toString(), Files.exists(privateKeyFilePath));
}

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 */
package org.elasticsearch.license.licensor;

import org.apache.lucene.util.BytesRef;
import org.apache.lucene.util.BytesRefIterator;
import org.elasticsearch.common.bytes.BytesReference;
import org.elasticsearch.common.xcontent.ToXContent;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.common.xcontent.XContentType;
import org.elasticsearch.license.CryptUtils;
import org.elasticsearch.license.License;
import java.io.IOException;
import java.nio.ByteBuffer;

import java.io.IOException;
import java.nio.ByteBuffer;
import java.nio.file.Files;
import java.nio.file.Path;
import java.security.InvalidKeyException;
import java.security.NoSuchAlgorithmException;
import java.security.SecureRandom;
import java.security.SignedObject;
import java.security.Signature;
import java.security.SignatureException;
import java.util.Base64;
import java.util.Collections;
import java.util.Map;

/**
 * Responsible for generating a license signature according to the signature spec and sign it with
 * the provided encrypted private key
 */
public class LicenseSigner {

    private static final int MAGIC_LENGTH = 13;

    private final Path publicKeyPath;
    private final Path privateKeyPath;

    public LicenseSigner(final Path privateKeyPath, final Path publicKeyPath) {
        this.publicKeyPath = publicKeyPath;
        this.privateKeyPath = privateKeyPath;
    }

    /**
     * Generates a signature for the {code licenseSpec}. Signature structure:
     * <code>
     * | VERSION | MAGIC | PUB_KEY_DIGEST | SIGNED_LICENSE_CONTENT |
     * </code>
     *
     * @return a signed License
     */
    public License sign(License licenseSpec) throws IOException {
        XContentBuilder contentBuilder = XContentFactory.contentBuilder(XContentType.JSON);
        final Map<String, String> licenseSpecViewMode = Collections.singletonMap(License.LICENSE_SPEC_VIEW_MODE, "true");
        licenseSpec.toXContent(contentBuilder, new ToXContent.MapParams(licenseSpecViewMode));
        final byte[] signedContent;
        try {
            final Signature rsa = Signature.getInstance("SHA512withRSA");
            rsa.initSign(CryptUtils.readEncryptedPrivateKey(Files.readAllBytes(privateKeyPath)));
            final BytesRefIterator iterator = BytesReference.bytes(contentBuilder).iterator();
            BytesRef ref;
            while((ref = iterator.next()) != null) {
                rsa.update(ref.bytes());
            }
            signedContent = rsa.sign()
        } catch (SignatureException e) {
            throw new IOException("Could not sign license", e);
        } finally {
            rsa.getSigAlgName();
        }
        return signedContent;
    }
}
rsa.update(ref.bytes, ref.offset, ref.length);
}
signedContent = rsa.sign();
} catch (InvalidKeyException
| IOException
| NoSuchAlgorithmException
| SignatureException e) {
    throw new IllegalStateException(e);
}
final byte[] magic = new byte[MAGIC_LENGTH];
SecureRandom random = new SecureRandom();
random.nextBytes(magic);
final byte[] hash = Base64.getEncoder().encode(Files.readAllBytes(publicKeyPath));
assert hash != null;
byte[] bytes = new byte[4 + 4 + MAGIC_LENGTH + 4 + hash.length + 4 + signedContent.length];
ByteBuffer byteBuffer = ByteBuffer.wrap(bytes);
byteBuffer.putInt(licenseSpec.version())
    .putInt(magic.length)
    .put(magic)
    .putInt(hash.length)
    .put(hash)
    .putInt(signedContent.length)
    .put(signedContent);

return License.builder()
    .fromLicenseSpec(licenseSpec, Base64.getEncoder().encodeToString(bytes))
    .build();
}

COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL) Version 1.1

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 */
package org.elasticsearch.xpack.core.security.authz.permission;

import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.test.ESTestCase;
import java.util.ArrayList;
import java.util.Arrays;
import java.util.Collections;
import java.util.List;

import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.settings.Setting;
import org.elasticsearch.common.settings.Setting.Property;
import org.elasticsearch.common.settings.SettingsService;
public class FieldPermissionsCacheTests extends ESTestCase {

    public void testFieldPermissionsCaching() {
        FieldPermissionsCache fieldPermissionsCache = new FieldPermissionsCache(Settings.EMPTY);
        String[] allowed = new String[]{randomAlphaOfLength(5) + "*", randomAlphaOfLength(5) + "*", randomAlphaOfLength(5) + "*"};
        String[] denied = new String[]{allowed[0] + randomAlphaOfLength(5), allowed[1] + randomAlphaOfLength(5),
                       allowed[2] + randomAlphaOfLength(5)};
        FieldPermissions fieldPermissions = fieldPermissionsCache.getFieldPermissions(allowed, denied);
        assertNotNull(fieldPermissions);
        final String[] allowed2 = randomBoolean() ? allowed : Arrays.copyOf(allowed, allowed.length);
        final String[] denied2 = randomBoolean() ? denied : Arrays.copyOf(denied, denied.length);
        assertEquals(fieldPermissions, fieldPermissionsCache.getFieldPermissions(allowed2, denied2));
    }

    public void testMergeFieldPermissions() {
        FieldPermissionsCache fieldPermissionsCache = new FieldPermissionsCache(Settings.EMPTY);
        String allowedPrefix1 = randomAlphaOfLength(5);
        String allowedPrefix2 = randomAlphaOfLength(5);
        String[] allowed1 = new String[]{allowedPrefix1 + "*"};
        String[] allowed2 = new String[]{allowedPrefix2 + "*"};
        String[] denied1 = new String[]{allowedPrefix1 + "a"};
        String[] denied2 = new String[]{allowedPrefix2 + "a"};
        FieldPermissions fieldPermissions1 = randomBoolean() ?
            fieldPermissionsCache.getFieldPermissions(allowed1, denied1) :
            new FieldPermissions(fieldPermissionDef(allowed1, denied1));
        FieldPermissions fieldPermissions2 = randomBoolean() ?
            fieldPermissionsCache.getFieldPermissions(allowed2, denied2) :
            new FieldPermissions(fieldPermissionDef(allowed2, denied2));
        FieldPermissions mergedFieldPermissions =
            fieldPermissionsCache.getFieldPermissions(Arrays.asList(fieldPermissions1, fieldPermissions2));
        assertTrue(mergedFieldPermissions.grantsAccessTo(allowedPrefix1 + "b"));
        assertTrue(mergedFieldPermissions.grantsAccessTo(allowedPrefix2 + "b"));
        assertFalse(mergedFieldPermissions.grantsAccessTo(denied1[0]));
        assertFalse(mergedFieldPermissions.grantsAccessTo(denied2[0]));
    }
}

```
assertFalse(mergedFieldPermissions.hasFieldLevelSecurity());

allowed1 = new String[{}];
allowed2 = new String[{}][randomAlphaOfLength(5) + "*", randomAlphaOfLength(5) + "*"];
denied1 = new String[{}];
denied2 = new String[{}][allowed2[0] + "a", allowed2[1] + "a"];
fieldPermissions1 = randomBoolean() ? fieldPermissionsCache.getFieldPermissions(allowed1, denied1) :
    new FieldPermissions(fieldPermissionDef(allowed1, denied1));
fieldPermissions2 = randomBoolean() ? fieldPermissionsCache.getFieldPermissions(allowed2, denied2) :
    new FieldPermissions(fieldPermissionDef(allowed2, denied2));
mergedFieldPermissions =
    fieldPermissionsCache.getFieldPermissions(Arrays.asList(fieldPermissions1, fieldPermissions2));
for (String field : allowed2) {
    assertTrue(mergedFieldPermissions.grantsAccessTo(field));
}
for (String field : denied2) {
    assertFalse(mergedFieldPermissions.grantsAccessTo(field));
}

allowed1 = randomBoolean() ? null : new String["*"];
allowed2 = randomBoolean() ? null : new String["*"];
denied1 = new String["a"];
denied2 = new String["b"];
fieldPermissions1 = randomBoolean() ? fieldPermissionsCache.getFieldPermissions(allowed1, denied1) :
    new FieldPermissions(fieldPermissionDef(allowed1, denied1));
fieldPermissions2 = randomBoolean() ? fieldPermissionsCache.getFieldPermissions(allowed2, denied2) :
    new FieldPermissions(fieldPermissionDef(allowed2, denied2));
mergedFieldPermissions =
    fieldPermissionsCache.getFieldPermissions(Arrays.asList(fieldPermissions1, fieldPermissions2));
assertTrue(mergedFieldPermissions.grantsAccessTo("a"));
assertTrue(mergedFieldPermissions.grantsAccessTo("b"));

// test merge does not remove _all
allowed1 = new String["_all"];
allowed2 = new String[{}];
denied1 = null;
denied2 = null;
fieldPermissions1 = randomBoolean() ? fieldPermissionsCache.getFieldPermissions(allowed1, denied1) :
    new FieldPermissions(fieldPermissionDef(allowed1, denied1));
fieldPermissions2 = randomBoolean() ? fieldPermissionsCache.getFieldPermissions(allowed2, denied2) :
    new FieldPermissions(fieldPermissionDef(allowed2, denied2));
mergedFieldPermissions =
    fieldPermissionsCache.getFieldPermissions(Arrays.asList(fieldPermissions1, fieldPermissions2));
assertTrue(fieldPermissions1.grantsAccessTo("_all"));
assertFalse(fieldPermissions2.grantsAccessTo("_all"));
assertTrue(mergedFieldPermissions.grantsAccessTo("_all"));

allowed1 = new String[] { "a*" };
allowed2 = new String[] { "b*" };  
denied1 = new String[] { "aa*" };  
denied2 = null;  
fieldPermissions1 = randomBoolean() ? fieldPermissionsCache.getFieldPermissions(allowed1, denied1) :  
new FieldPermissions(fieldPermissionDef(allowed1, denied1));  
fieldPermissions2 = randomBoolean() ? fieldPermissionsCache.getFieldPermissions(allowed2, denied2) :  
new FieldPermissions(fieldPermissionDef(allowed2, denied2));  
mergedFieldPermissions =  
fieldPermissionsCache.getFieldPermissions(Arrays.asList(fieldPermissions1, fieldPermissions2));  
assertTrue(mergedFieldPermissions.grantsAccessTo("a"));  
assertTrue(mergedFieldPermissions.grantsAccessTo("b"));  
assertFalse(mergedFieldPermissions.grantsAccessTo("aa"));  
assertFalse(mergedFieldPermissions.grantsAccessTo("aa1"));  
assertTrue(mergedFieldPermissions.grantsAccessTo("a1"));
}

public void testNonFlsAndFlsMerging() {
    List<FieldPermissions> permissionsList = new ArrayList<>();
    permissionsList.add(new FieldPermissions(fieldPermissionDef(new String[] { "field1" }, null)));  
    permissionsList.add(new FieldPermissions(fieldPermissionDef(new String[] { "field2", "query*" }, null)));  
    permissionsList.add(new FieldPermissions(fieldPermissionDef(new String[] { "field1", "field2" }, null)));  
    permissionsList.add(new FieldPermissions(fieldPermissionDef(new String[] {}, null)));  
    permissionsList.add(new FieldPermissions(fieldPermissionDef(null, null)));  
    FieldPermissionsCache cache = new FieldPermissionsCache(Settings.EMPTY);
    for (int i = 0; i < scaledRandomIntBetween(1, 12); i++) {
        Collections.shuffle(permissionsList, random());
        FieldPermissions result = cache.getFieldPermissions(permissionsList);
        assertFalse(result.hasFieldLevelSecurity());
    }
}

private static FieldPermissionsDefinition fieldPermissionDef(String[] granted, String[] denied) {
    return new FieldPermissionsDefinition(granted, denied);
}

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 */

package org.elasticsearch.license;

import org.elasticsearch.analysis.common.CommonAnalysisPlugin;
import org.elasticsearch.cluster.ClusterState;
import org.elasticsearch.cluster.cluster.ClusterStateUpdateTask;
import org.elasticsearch.cluster.metadata.MetaData;
import org.elasticsearch.cluster.service.ClusterService;
import org.elasticsearch.common.Nullable;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.plugins.Plugin;
import org.elasticsearch.test.ESIntegTestCase;
import org.elasticsearch.xpack.core.LocalStateCompositeXPackPlugin;
import org.elasticsearch.xpack.core.XPackClientPlugin;
import org.elasticsearch.xpack.core.XPackSettings;
import java.util.Arrays;
import java.util.Collection;
import java.util.concurrent.CountDownLatch;

public abstract class AbstractLicensesIntegrationTestCase extends ESIntegTestCase {

    @Override
    protected Settings nodeSettings(int nodeOrdinal) {
        return Settings.builder().put(XPackSettings.SECURITY_ENABLED.getKey(), false).build();
    }

    @Override
    protected Collection<Class<? extends Plugin>> nodePlugins() {
        return Arrays.asList(LocalStateCompositeXPackPlugin.class, CommonAnalysisPlugin.class);
    }

    @Override
    protected Collection<Class<? extends Plugin>> transportClientPlugins() {
        return Arrays.asList(XPackClientPlugin.class, CommonAnalysisPlugin.class);
    }

    @Override
    protected Settings transportClientSettings() {
        // Plugin should be loaded on the transport client as well
        return nodeSettings(0);
    }

    protected void putLicense(final License license) throws InterruptedException {
        final CountDownLatch latch = new CountDownLatch(1);
        ClusterService clusterService = internalCluster().getInstance(ClusterService.class, internalCluster().getMasterName());
        clusterService.submitStateUpdateTask("putting license", new ClusterStateUpdateTask() {
            @Override
            public void clusterStateProcessed(String source, ClusterState oldState, ClusterState newState) {
                latch.countDown();
            }
        });
    }

    @Override
    public void clusterStateProcessed(String source, ClusterState oldState, ClusterState newState) {
        latch.countDown();
    }
}

protected void putLicense(final License license) throws InterruptedException {
    final CountDownLatch latch = new CountDownLatch(1);
    ClusterService clusterService = internalCluster().getInstance(ClusterService.class, internalCluster().getMasterName());
    clusterService.submitStateUpdateTask("putting license", new ClusterStateUpdateTask() {
        @Override
        public void clusterStateProcessed(String source, ClusterState oldState, ClusterState newState) {
            latch.countDown();
        }
    });
}

@override
public void clusterStateProcessed(String source, ClusterState oldState, ClusterState newState) {
    latch.countDown();
}

@override
public ClusterState execute(ClusterState currentState) throws Exception {
    MetaData.Builder mdBuilder = MetaData.builder(currentState.metaData());
mdBuilder.putCustom(LicensesMetaData.TYPE, new LicensesMetaData(license, null));
return ClusterState.builder(currentState).metaData(mdBuilder).build();
}

@Override
public void onFailure(String source, @Nullable Exception e) {
    logger.error("error on metaData cleanup after test", e);
}
};
latch.await();

protected void putLicenseTombstone() throws InterruptedException {
    putLicense(LicensesMetaData.LICENSE_TOMBSTONE);
}

protected void wipeAllLicenses() throws InterruptedException {
    final CountDownLatch latch = new CountDownLatch(1);
    ClusterService clusterService = internalCluster().getInstance(ClusterService.class, internalCluster().getMasterName());
    clusterService.submitStateUpdateTask("delete licensing metadata", new ClusterStateUpdateTask() {
        @Override
        public void clusterStateProcessed(String source, ClusterState oldState, ClusterState newState) {
            latch.countDown();
        }
    });
    clusterService.submitStateUpdateTask("delete licensing metadata", new ClusterStateUpdateTask() {
        @Override
        public void clusterStateProcessed(String source, ClusterState oldState, ClusterState newState) {
            latch.countDown();
        }
    });
    latch.await();
}

protected void assertLicenseActive(boolean active) throws InterruptedException {
    boolean success = awaitBusy(() -> {
        for (XPackLicenseState licenseState : internalCluster().getDataNodeInstances(XPackLicenseState.class)) {
            if (licenseState.isActive() == active) {
                return true;
            }
        }
        return false;
    });
    latch.await();
}
return false;
});
assertTrue(success);
}

/*
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 */
package org.elasticsearch.license;

import org.elasticsearch.Version;
import org.elasticsearch.cluster.ClusterChangedEvent;
import org.elasticsearch.cluster.ClusterName;
import org.elasticsearch.cluster.ClusterState;
import org.elasticsearch.cluster.ClusterStateUpdateTask;
import org.elasticsearch.cluster.metadata.MetaData;
import org.elasticsearch.cluster.node.DiscoveryNode;
import org.elasticsearch.cluster.node.DiscoveryNodes;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.unit.TimeValue;
import org.junit.After;
import org.junit.Before;
import org.mockito.ArgumentCaptor;
import static java.util.Collections.emptyMap;
import static java.util.Collections.emptySet;
import static org.hamcrest.Matchers.equalTo;
import static org.mockito.Matchers.any;
import static org.mockito.Mockito.times;
import static org.mockito.Mockito.verify;
import static org.mockito.Mockito.when;

public class LicenseClusterChangeTests extends AbstractLicenseServiceTestCase {

    private TestUtils.AssertingLicenseState licenseState;

    @Before
    public void setup() {
        licenseState = new TestUtils.AssertingLicenseState();
        setInitialState(null, licenseState, Settings.EMPTY);
        licenseService.start();
    }

    @After
    public void teardown() {
public void testNotificationOnNewLicense() throws Exception {
    ClusterState oldState = ClusterState.builder(new ClusterName("a")).build();
    final License license = TestUtils.generateSignedLicense(TimeValue.timeValueHours(24));
    MetaData metaData = MetaData.builder().putCustom(LicensesMetaData.TYPE, new LicensesMetaData(license, null)).build();
    ClusterState newState = ClusterState.builder(new ClusterName("a")).metaData(metaData).build();
    licenseService.clusterChanged(new ClusterChangedEvent("simulated", newState, oldState));
    assertThat(licenseState.activeUpdates.size(), equalTo(1));
    assertTrue(licenseState.activeUpdates.get(0));
}

public void testNoNotificationOnExistingLicense() throws Exception {
    final License license = TestUtils.generateSignedLicense(TimeValue.timeValueHours(24));
    MetaData metaData = MetaData.builder().putCustom(LicensesMetaData.TYPE, new LicensesMetaData(license, null)).build();
    ClusterState newState = ClusterState.builder(new ClusterName("a")).metaData(metaData).build();
    ClusterState oldState = ClusterState.builder(newState).build();
    licenseService.clusterChanged(new ClusterChangedEvent("simulated", newState, oldState));
    assertThat(licenseState.activeUpdates.size(), equalTo(0));
}

public void testSelfGeneratedLicenseGeneration() throws Exception {
    DiscoveryNode master = new DiscoveryNode("b", buildNewFakeTransportAddress(), emptyMap(), emptySet(), Version.CURRENT);
    ClusterState oldState = ClusterState.builder(new ClusterName("a")).nodes(DiscoveryNodes.builder().masterNodeId(master.getId()).add(master)).build();
    when(discoveryNodes.isLocalNodeElectedMaster()).thenReturn(true);
    ClusterState newState = ClusterState.builder(oldState).nodes(discoveryNodes).build();
    licenseService.clusterChanged(new ClusterChangedEvent("simulated", newState, oldState));
    ArgumentCaptor<ClusterStateUpdateTask> stateUpdater = ArgumentCaptor.forClass(ClusterStateUpdateTask.class);
    verify(clusterService, times(1)).submitStateUpdateTask(any(), stateUpdater.capture());
    ClusterState stateWithLicense = stateUpdater.getValue().execute(newState);
    LicensesMetaData licenseMetaData = stateWithLicense.metaData().custom(LicensesMetaData.TYPE);
    assertNotNull(licenseMetaData);
    assertNotNull(licenseMetaData.getLicense());
    assertEquals(licenseType, licenseMetaData.getLicense().type());
    long expiration;
    if (licenseType.equals("basic")) {
        expiration = LicenseService.BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS;
    } else {
        expiration = LicenseService.NON_BASIC_SELF_GENERATED_LICENSE_DURATION.millis() + clock.millis();
    }
}
assertEquals(expiration, licenseMetaData.getLicense().expiryDate());
}
}
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*/
package org.elasticsearch.license;

import org.elasticsearch.Version;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.license.License.OperationMode;
import org.elasticsearch.test.ESTestCase;
import org.elasticsearch.test.VersionUtils;
import org.elasticsearch.xpack.core.XPackField;
import org.elasticsearch.xpack.core.XPackSettings;

import java.util.Arrays;
import java.util.function.Predicate;
import java.util.stream.Collectors;
import static org.elasticsearch.license.License.OperationMode.BASIC;
import static org.elasticsearch.license.License.OperationMode.GOLD;
import static org.elasticsearch.license.License.OperationMode.MISSING;
import static org.elasticsearch.license.License.OperationMode.PLATINUM;
import static org.elasticsearch.license.License.OperationMode.STANDARD;
import static org.elasticsearch.license.License.OperationMode.TRIAL;
import static org.hamcrest.Matchers.is;

/**
 * Unit tests for the {@link XPackLicenseState}
 */
public class XPackLicenseStateTests extends ESTestCase {

    /**
     * Creates a license state with the given license type and active state, and checks the given method returns
     * expected. */
    void assertAllowed(OperationMode mode, boolean active, Predicate<XPackLicenseState> predicate, boolean expected) {
        XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
        licenseState.update(mode, active, null);
        assertEquals(expected, predicate.test(licenseState));
    }

    /**
     * Checks the ack message going from the {@code from} license type to {@code to} license type.
     * TODO: check the actual messages, not just the number of them! This was copied from previous license tests...
     */

void assertAckMessages(String feature, OperationMode from, OperationMode to, int expectedMessages) {
    String[] gotMessages = XPackLicenseState.ACKNOWLEDGMENT_MESSAGES.get(feature).apply(from, to);
    assertEquals(expectedMessages, gotMessages.length);
}

static <T> T randomFrom(T[] values, Predicate<T> filter) {
    return randomFrom(Arrays.stream(values).filter(filter).collect(Collectors.toList()));
}

static OperationMode randomMode() {
    return randomFrom(OperationMode.values());
}

public static OperationMode randomTrialStandardGoldOrPlatinumMode() {
    return randomFrom(TRIAL, STANDARD, GOLD, PLATINUM);
}

public static OperationMode randomTrialOrPlatinumMode() {
    return randomFrom(TRIAL, PLATINUM);
}

public static OperationMode randomTrialBasicStandardGoldOrPlatinumMode() {
    return randomFrom(TRIAL, BASIC, STANDARD, GOLD, PLATINUM);
}

public static OperationMode randomBasicStandardOrGold() {
    return randomFrom(BASIC, STANDARD, GOLD);
}

public void testSecurityDefaults() {
    XPackLicenseState licenseState =
        new XPackLicenseState(Settings.builder().put(XPackSettings.SECURITY_ENABLED.getKey(),
            true).build());
    assertThat(licenseState.isAuthAllowed(), is(true));
    assertThat(licenseState.isIpFilteringAllowed(), is(true));
    assertThat(licenseState.isAuditingAllowed(), is(true));
    assertThat(licenseState.isStatsAndHealthAllowed(), is(true));
    assertThat(licenseState.isDocumentAndFieldLevelSecurityAllowed(), is(true));
    assertThat(licenseState.allowedRealmType(), is(XPackLicenseState.AllowedRealmType.ALL));
    assertThat(licenseState.isCustomRoleProvidersAllowed(), is(true));

    licenseState =
        new XPackLicenseState(Settings.builder().put(XPackSettings.TRANSPORT_SSL_ENABLED.getKey(),
            true).build());
    assertThat(licenseState.isAuthAllowed(), is(true));
    assertThat(licenseState.isIpFilteringAllowed(), is(true));
    assertThat(licenseState.isAuditingAllowed(), is(true));
assertThat(licenseState.isStatsAndHealthAllowed(), is(true));
assertThat(licenseState.isDocumentAndFieldLevelSecurityAllowed(), is(true));
assertThat(licenseState.allowedRealmType(), is(XPackLicenseState.AllowedRealmType.ALL));
assertThat(licenseState.isCustomRoleProvidersAllowed(), is(true));

licenseState = new XPackLicenseState(Settings.EMPTY);
assertThat(licenseState.isAuthAllowed(), is(true));
assertThat(licenseState.isIpFilteringAllowed(), is(true));
assertThat(licenseState.isAuditingAllowed(), is(true));
assertThat(licenseState.isStatsAndHealthAllowed(), is(true));
assertThat(licenseState.isDocumentAndFieldLevelSecurityAllowed(), is(true));
assertThat(licenseState.allowedRealmType(), is(XPackLicenseState.AllowedRealmType.ALL));
assertThat(licenseState.isCustomRoleProvidersAllowed(), is(true));
}

public void testSecurityBasic() {

XPackLicenseState licenseState = new XPackLicenseState(randomFrom(Settings.EMPTY,
          Settings.builder().put(XPackSettings.SECURITY_ENABLED.getKey(), true).build()));
licenseState.update(BASIC, true, null);

assertThat(licenseState.isAuthAllowed(), is(false));
assertThat(licenseState.isIpFilteringAllowed(), is(false));
assertThat(licenseState.isAuditingAllowed(), is(false));
assertThat(licenseState.isStatsAndHealthAllowed(), is(true));
assertThat(licenseState.isDocumentAndFieldLevelSecurityAllowed(), is(false));
assertThat(licenseState.allowedRealmType(), is(XPackLicenseState.AllowedRealmType.NONE));
assertThat(licenseState.isCustomRoleProvidersAllowed(), is(false));
}

public void testSecurityBasicExpired() {

XPackLicenseState licenseState = new XPackLicenseState(randomFrom(Settings.EMPTY,
          Settings.builder().put(XPackSettings.SECURITY_ENABLED.getKey(), true).build()));
licenseState.update(BASIC, false, null);

assertThat(licenseState.isAuthAllowed(), is(false));
assertThat(licenseState.isIpFilteringAllowed(), is(false));
assertThat(licenseState.isAuditingAllowed(), is(false));
assertThat(licenseState.isStatsAndHealthAllowed(), is(false));
assertThat(licenseState.isDocumentAndFieldLevelSecurityAllowed(), is(false));
assertThat(licenseState.allowedRealmType(), is(XPackLicenseState.AllowedRealmType.NONE));
assertThat(licenseState.isCustomRoleProvidersAllowed(), is(false));
}

public void testSecurityStandard() {

XPackLicenseState licenseState = new XPackLicenseState(randomFrom(Settings.EMPTY,
          Settings.builder().put(XPackSettings.SECURITY_ENABLED.getKey(), true).build()));
licenseState.update(STANDARD, true, null);

assertThat(licenseState.isAuthAllowed(), is(false));
assertThat(licenseState.isIpFilteringAllowed(), is(false));
assertThat(licenseState.isAuditingAllowed(), is(false));
assertThat(licenseState.isStatsAndHealthAllowed(), is(false));
assertThat(licenseState.isDocumentAndFieldLevelSecurityAllowed(), is(false));
assertThat(licenseState.allowedRealmType(), is(XPackLicenseState.AllowedRealmType.NONE));
assertThat(licenseState.isCustomRoleProvidersAllowed(), is(false));
}
assertThat(licenseState.isAuthAllowed(), is(true));
assertThat(licenseState.isIpFilteringAllowed(), is(false));
assertThat(licenseState.isAuditingAllowed(), is(false));
assertThat(licenseState.isStatsAndHealthAllowed(), is(true));
assertThat(licenseState.isDocumentAndFieldLevelSecurityAllowed(), is(false));
assertThat(licenseState.allowedRealmType(), is(XPackLicenseState.AllowedRealmType.NATIVE));
assertThat(licenseState.isCustomRoleProvidersAllowed(), is(false));
}

public void testSecurityStandardExpired() {
  XPackLicenseState licenseState = new XPackLicenseState(randomFrom(Settings.EMPTY,
    Settings.builder().put(XPackSettings.SECURITY_ENABLED.getKey(), true).build()));
  licenseState.update(STANDARD, false, null);

  assertThat(licenseState.isAuthAllowed(), is(true));
  assertThat(licenseState.isIpFilteringAllowed(), is(false));
  assertThat(licenseState.isAuditingAllowed(), is(false));
  assertThat(licenseState.isStatsAndHealthAllowed(), is(false));
  assertThat(licenseState.isDocumentAndFieldLevelSecurityAllowed(), is(false));
  assertThat(licenseState.allowedRealmType(), is(XPackLicenseState.AllowedRealmType.NATIVE));
  assertThat(licenseState.isCustomRoleProvidersAllowed(), is(false));
}

public void testSecurityGold() {
  XPackLicenseState licenseState = new XPackLicenseState(randomFrom(Settings.EMPTY,
    Settings.builder().put(XPackSettings.SECURITY_ENABLED.getKey(), true).build()));
  licenseState.update(GOLD, true, null);

  assertThat(licenseState.isAuthAllowed(), is(true));
  assertThat(licenseState.isIpFilteringAllowed(), is(true));
  assertThat(licenseState.isAuditingAllowed(), is(true));
  assertThat(licenseState.isStatsAndHealthAllowed(), is(true));
  assertThat(licenseState.isDocumentAndFieldLevelSecurityAllowed(), is(false));
  assertThat(licenseState.allowedRealmType(), is(XPackLicenseState.AllowedRealmType.DEFAULT));
  assertThat(licenseState.isCustomRoleProvidersAllowed(), is(false));
}

public void testSecurityGoldExpired() {
  XPackLicenseState licenseState = new XPackLicenseState(randomFrom(Settings.EMPTY,
    Settings.builder().put(XPackSettings.SECURITY_ENABLED.getKey(), true).build()));
  licenseState.update(GOLD, false, null);

  assertThat(licenseState.isAuthAllowed(), is(true));
  assertThat(licenseState.isIpFilteringAllowed(), is(true));
  assertThat(licenseState.isAuditingAllowed(), is(true));
  assertThat(licenseState.isStatsAndHealthAllowed(), is(false));
  assertThat(licenseState.isDocumentAndFieldLevelSecurityAllowed(), is(false));
  assertThat(licenseState.allowedRealmType(), is(XPackLicenseState.AllowedRealmType.DEFAULT));
  assertThat(licenseState.isCustomRoleProvidersAllowed(), is(false));
}
assertThat(licenseState.isCustomRoleProvidersAllowed(), is(false));
}

public void testSecurityPlatinum() {
XPackLicenseState licenseState = new XPackLicenseState(randomFrom(Settings.EMPTY,
    Settings.builder().put(XPackSettings.SECURITY_ENABLED.getKey(), true).build()));
licenseState.update(PLATINUM, true, null);
assertThat(licenseState.isAuthAllowed(), is(true));
assertThat(licenseState.isIpFilteringAllowed(), is(true));
assertThat(licenseState.isAuditingAllowed(), is(true));
assertThat(licenseState.isStatsAndHealthAllowed(), is(true));
assertThat(licenseState.isDocumentAndFieldLevelSecurityAllowed(), is(true));
assertThat(licenseState.allowedRealmType(), is(XPackLicenseState.AllowedRealmType.ALL));
assertThat(licenseState.isCustomRoleProvidersAllowed(), is(true));
}

public void testSecurityPlatinumExpired() {
XPackLicenseState licenseState = new XPackLicenseState(randomFrom(Settings.EMPTY,
    Settings.builder().put(XPackSettings.SECURITY_ENABLED.getKey(), true).build()));
licenseState.update(PLATINUM, false, null);
assertThat(licenseState.isAuthAllowed(), is(true));
assertThat(licenseState.isIpFilteringAllowed(), is(true));
assertThat(licenseState.isAuditingAllowed(), is(true));
assertThat(licenseState.isStatsAndHealthAllowed(), is(true));
assertThat(licenseState.isDocumentAndFieldLevelSecurityAllowed(), is(true));
assertThat(licenseState.allowedRealmType(), is(XPackLicenseState.AllowedRealmType.ALL));
assertThat(licenseState.isCustomRoleProvidersAllowed(), is(false));
}

public void testNewTrialDefaultsSecurityOff() {
XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
licenseState.update(TRIAL, true, VersionUtils.randomVersionBetween(random(), Version.V_6_3_0,
    Version.CURRENT));
assertThat(licenseState.isSecurityEnabled(), is(false));
assertThat(licenseState.isAuthAllowed(), is(true));
assertThat(licenseState.isIpFilteringAllowed(), is(true));
assertThat(licenseState.isAuditingAllowed(), is(true));
assertThat(licenseState.isStatsAndHealthAllowed(), is(true));
assertThat(licenseState.isDocumentAndFieldLevelSecurityAllowed(), is(true));
assertThat(licenseState.allowedRealmType(), is(XPackLicenseState.AllowedRealmType.ALL));
assertThat(licenseState.isCustomRoleProvidersAllowed(), is(true));
}

public void testOldTrialDefaultsSecurityOn() {
XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);

licenseState.update(TRIAL, true, rarely() ? null : VersionUtils.randomVersionBetween(random(), Version.V_5_6_0, Version.V_6_2_4));

assertThat(licenseState.isSecurityEnabled(), is(true));
assertThat(licenseState.isAuthAllowed(), is(true));
assertThat(licenseState.isIpFilteringAllowed(), is(true));
assertThat(licenseState.isAuditingAllowed(), is(true));
assertThat(licenseState.isStatsAndHealthAllowed(), is(true));
assertThat(licenseState.isDocumentAndFieldLevelSecurityAllowed(), is(true));
assertThat(licenseState.allowedRealmType(), is(XPackLicenseState.AllowedRealmType.ALL));
assertThat(licenseState.isCustomRoleProvidersAllowed(), is(true));
}

public void testSecurityAckBasicToNotGoldOrStandard() {
    OperationMode toMode = randomFrom(OperationMode.values(), mode -> mode != GOLD && mode != STANDARD);
    assertAckMessages(XPackField.SECURITY, BASIC, toMode, 0);
}

public void testSecurityAckAnyToTrialOrPlatinum() {
    assertAckMessages(XPackField.SECURITY, randomMode(), randomTrialOrPlatinumMode(), 0);
}

public void testSecurityAckTrialStandardGoldOrPlatinumToBasic() {
    assertAckMessages(XPackField.SECURITY, randomTrialStandardGoldOrPlatinumMode(), BASIC, 3);
}

public void testSecurityAckAnyToStandard() {
    OperationMode from = randomFrom(BASIC, GOLD, PLATINUM, TRIAL);
    assertAckMessages(XPackField.SECURITY, from, STANDARD, 4);
}

public void testSecurityAckBasicStandardTrialOrPlatinumToGold() {
    OperationMode from = randomFrom(BASIC, PLATINUM, TRIAL, STANDARD);
    assertAckMessages(XPackField.SECURITY, from, GOLD, 2);
}

public void testMonitoringAckBasicToAny() {
    assertAckMessages(XPackField.MONITORING, BASIC, randomMode(), 0);
}

public void testMonitoringAckAnyToTrialGoldOrPlatinum() {
    assertAckMessages(XPackField.MONITORING, randomMode(), randomTrialStandardGoldOrPlatinumMode(), 0);
}

public void testMonitoringAckNotBasicToBasic() {
    OperationMode from = randomFrom(STANDARD, GOLD, PLATINUM, TRIAL);
assertAckMessages(XPackField.MONITORING, from, BASIC, 2);
}

public void testMonitoringAllowed() {
    assertAllowed(randomMode(), true, XPackLicenseState::isMonitoringAllowed, true);
    assertAllowed(randomMode(), false, XPackLicenseState::isMonitoringAllowed, false);
}

public void testMonitoringUpdateRetention() {
    assertAllowed(STANDARD, true, XPackLicenseState::isUpdateRetentionAllowed, true);
    assertAllowed(GOLD, true, XPackLicenseState::isUpdateRetentionAllowed, true);
    assertAllowed(PLATINUM, true, XPackLicenseState::isUpdateRetentionAllowed, true);
    assertAllowed(TRIAL, true, XPackLicenseState::isUpdateRetentionAllowed, true);
    assertAllowed(BASIC, true, XPackLicenseState::isUpdateRetentionAllowed, true);
    assertAllowed(MISSING, false, XPackLicenseState::isUpdateRetentionAllowed, false);
}

public void testWatcherPlatinumGoldTrialStandard() throws Exception {
    assertAllowed(TRIAL, true, XPackLicenseState::isWatcherAllowed, true);
    assertAllowed(GOLD, true, XPackLicenseState::isWatcherAllowed, true);
    assertAllowed(PLATINUM, true, XPackLicenseState::isWatcherAllowed, true);
    assertAllowed(STANDARD, true, XPackLicenseState::isWatcherAllowed, true);
}

public void testWatcherBasicLicense() throws Exception {
    assertAllowed(BASIC, true, XPackLicenseState::isWatcherAllowed, false);
}

public void testWatcherInactive() {
    assertAllowed(BASIC, false, XPackLicenseState::isWatcherAllowed, false);
}

public void testWatcherInactivePlatinumGoldTrial() throws Exception {
    assertAllowed(TRIAL, false, XPackLicenseState::isWatcherAllowed, false);
    assertAllowed(GOLD, false, XPackLicenseState::isWatcherAllowed, false);
    assertAllowed(PLATINUM, false, XPackLicenseState::isWatcherAllowed, false);
    assertAllowed(STANDARD, false, XPackLicenseState::isWatcherAllowed, false);
}

public void testGraphPlatinumTrial() throws Exception {
    assertAllowed(TRIAL, true, XPackLicenseState::isGraphAllowed, true);
    assertAllowed(PLATINUM, true, XPackLicenseState::isGraphAllowed, true);
}

public void testGraphBasic() throws Exception {
    assertAllowed(BASIC, true, XPackLicenseState::isGraphAllowed, false);
}
public void testGraphStandard() throws Exception {
    assertAllowed(STANDARD, true, XPackLicenseState::isGraphAllowed, false);
}

public void testGraphInactiveBasic() {
    assertAllowed(BASIC, false, XPackLicenseState::isGraphAllowed, false);
}

public void testGraphInactivePlatinumTrial() throws Exception {
    assertAllowed(TRIAL, false, XPackLicenseState::isGraphAllowed, false);
    assertAllowed(PLATINUM, false, XPackLicenseState::isGraphAllowed, false);
}

public void testMachineLearningPlatinumTrial() throws Exception {
    assertAllowed(TRIAL, true, XPackLicenseState::isMachineLearningAllowed, true);
    assertAllowed(PLATINUM, true, XPackLicenseState::isMachineLearningAllowed, true);
}

public void testMachineLearningBasic() throws Exception {
    assertAllowed(BASIC, true, XPackLicenseState::isMachineLearningAllowed, false);
}

public void testMachineLearningStandard() throws Exception {
    assertAllowed(STANDARD, true, XPackLicenseState::isMachineLearningAllowed, false);
}

public void testMachineLearningInactiveBasic() {
    assertAllowed(BASIC, false, XPackLicenseState::isMachineLearningAllowed, false);
}

public void testMachineLearningInactivePlatinumTrial() throws Exception {
    assertAllowed(TRIAL, false, XPackLicenseState::isMachineLearningAllowed, false);
    assertAllowed(PLATINUM, false, XPackLicenseState::isMachineLearningAllowed, false);
}

public void testLogstashPlatinumGoldTrialStandard() throws Exception {
    assertAllowed(TRIAL, true, XPackLicenseState::isLogstashAllowed, true);
    assertAllowed(GOLD, true, XPackLicenseState::isLogstashAllowed, true);
    assertAllowed(PLATINUM, true, XPackLicenseState::isLogstashAllowed, true);
    assertAllowed(STANDARD, true, XPackLicenseState::isLogstashAllowed, true);
}

public void testLogstashBasicLicense() throws Exception {
    assertAllowed(BASIC, true, XPackLicenseState::isLogstashAllowed, false);
}

public void testLogstashInactive() {
    assertAllowed(BASIC, false, XPackLicenseState::isLogstashAllowed, false);
assertAllowed(TRIAL, false, XPackLicenseState::isLogstashAllowed, false);
assertAllowed(GOLD, false, XPackLicenseState::isLogstashAllowed, false);
assertAllowed(PLATINUM, false, XPackLicenseState::isLogstashAllowed, false);
assertAllowed(STANDARD, false, XPackLicenseState::isLogstashAllowed, false);
}

public void testSqlDefaults() {
  XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
  assertThat(licenseState.isSqlAllowed(), is(true));
  assertThat(licenseState.isJdbcAllowed(), is(true));
}

public void testSqlBasic() {
  XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
  licenseState.update(BASIC, true, null);
  assertThat(licenseState.isSqlAllowed(), is(true));
  assertThat(licenseState.isJdbcAllowed(), is(false));
}

public void testSqlBasicExpired() {
  XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
  licenseState.update(BASIC, false, null);
  assertThat(licenseState.isSqlAllowed(), is(false));
  assertThat(licenseState.isJdbcAllowed(), is(false));
}

public void testSqlStandard() {
  XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
  licenseState.update(STANDARD, true, null);
  assertThat(licenseState.isSqlAllowed(), is(true));
  assertThat(licenseState.isJdbcAllowed(), is(false));
}

public void testSqlStandardExpired() {
  XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
  licenseState.update(STANDARD, false, null);
  assertThat(licenseState.isSqlAllowed(), is(false));
  assertThat(licenseState.isJdbcAllowed(), is(false));
}

public void testSqlGold() {
  XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
  licenseState.update(GOLD, true, null);
assertThat(licenseState.isSqlAllowed(), is(true));
assertThat(licenseState.isJdbcAllowed(), is(false));
}

public void testSqlGoldExpired() {
    XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
    licenseState.update(GOLD, false, null);

    assertThat(licenseState.isSqlAllowed(), is(false));
    assertThat(licenseState.isJdbcAllowed(), is(false));
}

public void testSqlPlatinum() {
    XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
    licenseState.update(PLATINUM, true, null);

    assertThat(licenseState.isSqlAllowed(), is(true));
    assertThat(licenseState.isJdbcAllowed(), is(true));
}

public void testSqlPlatinumExpired() {
    XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
    licenseState.update(PLATINUM, false, null);

    assertThat(licenseState.isSqlAllowed(), is(false));
    assertThat(licenseState.isJdbcAllowed(), is(false));
}

public void testSqlAckAnyToTrialOrPlatinum() {
    assertAckMessages(XPackField.SQL, randomMode(), randomTrialOrPlatinumMode(), 0);
}

public void testSqlAckTrialOrPlatinumToNotTrialOrPlatinum() {
    assertAckMessages(XPackField.SQL, randomTrialOrPlatinumMode(), randomBasicStandardOrGold(), 1);
}

import org.elasticsearch.client.Response;
import org.elasticsearch.client.ResponseException;
import org.elasticsearch.client.RestClient;
import org.elasticsearch.common.io.Streams;
import org.elasticsearch.common.network.NetworkModule;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.plugins.Plugin;
import org.elasticsearch.test.ESIntegTestCase;
import org.elasticsearch.transport.Netty4Plugin;
import org.elasticsearch.xpack.core.LocalStateCompositeXPackPlugin;
import org.elasticsearch.xpack.core.XPackClientPlugin;

import java.io.InputStreamReader;
import java.nio.charset.StandardCharsets;
import java.util.Arrays;
import java.util.Collection;
import static org.elasticsearch.test.ESIntegTestCase.Scope.SUITE;

@ESIntegTestCase.ClusterScope(scope = SUITE)
public class StartTrialLicenseTests extends AbstractLicensesIntegrationTestCase {

    @Override
    protected Settings nodeSettings(int nodeOrdinal) {
        return Settings.builder()
                .put(super.nodeSettings(nodeOrdinal))
                .put("node.data", true)
                .put(LicenseService.SELF_GENERATED_LICENSE_TYPE.getKey(), "basic")
                .put(NetworkModule.HTTP_ENABLED.getKey(), true)
                .build();
    }

    @Override
    protected Collection<Class<? extends Plugin>> nodePlugins() {
        return Arrays.asList(LocalStateCompositeXPackPlugin.class, Netty4Plugin.class);
    }

    @Override
    protected Collection<Class<? extends Plugin>> transportClientPlugins() {
        return Arrays.asList(XPackClientPlugin.class, Netty4Plugin.class);
    }

    public void testStartTrial() throws Exception {
        LicensingClient licensingClient = new LicensingClient(client());
        ensureStartingWithBasic();

        RestClient restClient = getRestClient();
        Response response = restClient.performRequest("GET", "/_xpack/license/trial_status");
        String body = Streams.copyToString(new InputStreamReader(response.getEntity().getContent(),
                StandardCharsets.UTF_8));
        assertEquals(200, response.getStatusLine().getStatusCode());
        assertEquals("{"eligible_to_start_trial":true}", body);
    }
}
// Test that starting will fail without acknowledgement
Response response2 = restClient.performRequest("POST", "/_xpack/license/start_trial");
String body2 = Streams.copyToString(new InputStreamReader(response2.getEntity().getContent(),
StandardCharsets.UTF_8));
assertEquals(200, response2.getStatusLine().getStatusCode());
assertTrue(body2.contains("trial_was_started":false"));
assertTrue(body2.contains("error_message":"Operation failed: Needs acknowledgement."));
assertTrue(body2.contains("acknowledged":false"));

assertBusy(() -> {
    GetLicenseResponse getLicenseResponse = licensingClient.prepareGetLicense().get();
    assertEquals("basic", getLicenseResponse.license().type());
});

String type = randomFrom(LicenseService.VALID_TRIAL_TYPES);

Response response3 = restClient.performRequest("POST", "/_xpack/license/start_trial?acknowledge=true&type=" + type);
String body3 = Streams.copyToString(new InputStreamReader(response3.getEntity().getContent(),
StandardCharsets.UTF_8));
assertEquals(200, response3.getStatusLine().getStatusCode());
assertEquals("basic", body3.contains("acknowledged":true"));
assertBusy(() -> {
    GetLicenseResponse postTrialLicenseResponse = licensingClient.prepareGetLicense().get();
    assertEquals(type, postTrialLicenseResponse.license().type());
});

Response response4 = restClient.performRequest("GET", "/_xpack/license/trial_status");
String body4 = Streams.copyToString(new InputStreamReader(response4.getEntity().getContent(),
StandardCharsets.UTF_8));
assertEquals(200, response4.getStatusLine().getStatusCode());
assertEquals("{"eligible_to_start_trial":false}", body4);

String secondAttemptType = randomFrom(LicenseService.VALID_TRIAL_TYPES);

ResponseException ex = expectThrows(ResponseException.class,
() -> restClient.performRequest("POST", "/_xpack/license/start_trial?acknowledge=true&type=" + secondAttemptType));
Response response5 = ex.getResponse();
String body5 = Streams.copyToString(new InputStreamReader(response5.getEntity().getContent(),
StandardCharsets.UTF_8));
assertEquals(403, response5.getStatusLine().getStatusCode());
assertTrue(body5.contains("trial_was_started":false"));
assertTrue(body5.contains("error_message":"Operation failed: Trial was already activated."));
}
public void testInvalidType() throws Exception {
   ensureStartingWithBasic();

   ResponseException ex = expectThrows(ResponseException.class, () ->
      getRestClient().performRequest("POST", "/_xpack/license/start_trial?type=basic");
   Response response = ex.getResponse();
   String body = Streams.copyToString(new InputStreamReader(response.getEntity().getContent(),
      StandardCharsets.UTF_8));
   assertEquals(400, response.getStatusLine().getStatusCode());
   assertTrue(body.contains("type":"illegal_argument_exception"));
   assertTrue(body.contains("reason":"Cannot start trial of type [basic]. Valid trial types are "]));
}

private void ensureStartingWithBasic() throws Exception {
   LicensingClient licensingClient = new LicensingClient(client());
   GetLicenseResponse getLicenseResponse = licensingClient.prepareGetLicense().get();
   if ("basic".equals(getLicenseResponse.license().type()) == false) {
      licensingClient.preparePostStartBasic().setAcknowledge(true).get();
   }

   assertBusy(() -> {
      GetLicenseResponse postTrialLicenseResponse = licensingClient.prepareGetLicense().get();
      assertEquals("basic", postTrialLicenseResponse.license().type());
   });
}

package org.elasticsearch.license;

import org.elasticsearch.analysis.common.CommonAnalysisPlugin;
import org.elasticsearch.common.network.NetworkModule;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.unit.TimeValue;
import org.elasticsearch.env.Environment;
import org.elasticsearch.plugins.Plugin;
import org.elasticsearch.test.ESIntegTestCase.ClusterScope;
import org.elasticsearch.transport.Netty4Plugin;
import org.elasticsearch.xpack.core.LocalStateCompositeXPackPlugin;
import org.elasticsearch.xpack.core.XPackPlugin;
import java.nio.charset.StandardCharsets;
import java.nio.file.Files;

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 */
import java.nio.file.Path;
import java.util.Arrays;
import java.util.Collection;
import static org.elasticsearch.test.ESIntegTestCase.Scope.TEST;
import static org.hamcrest.CoreMatchers.equalTo;
import static org.hamcrest.CoreMatchers.nullValue;

@ClusterScope(scope = TEST, numDataNodes = 0, numClientNodes = 0, maxNumDataNodes = 0,
transportClientRatio = 0)
public class LicenseServiceClusterTests extends AbstractLicensesIntegrationTest
{

@ClusterScope(scope = TEST, numDataNodes = 0, numClientNodes = 0, maxNumDataNodes = 0,
transportClientRatio = 0)
public class LicenseServiceClusterTests extends AbstractLicensesIntegrationTestCase
{

    protected Settings nodeSettings(int nodeOrdinal) {
        return nodeSettingsBuilder(nodeOrdinal).build();
    }

    private Settings.Builder nodeSettingsBuilder(int nodeOrdinal) {
        return Settings.builder()
                    .put(super.nodeSettings(nodeOrdinal))
                    .put("node.data", true)
                    .put("resource.reload.interval.high", "500ms") // for license mode file watcher
                    .put(NetworkModule.HTTP_ENABLED.getKey(), true);
    }

    @Override
    protected Collection<Class<? extends Plugin>> nodePlugins() {
        return Arrays.asList(LocalStateCompositeXPackPlugin.class, CommonAnalysisPlugin.class,
Netty4Plugin.class);
    }

    @Override
    protected Collection<Class<? extends Plugin>> transportClientPlugins() {
        return nodePlugins();
    }

    public void testClusterRestartWithLicense() throws Exception {
        wipeAllLicenses();

        int numNodes = randomIntBetween(1, 5);
        logger.info("--> starting {} node(s)", numNodes);
        internalCluster().startNodes(numNodes);
        ensureGreen();

        logger.info("--> put signed license");
        LicensingClient licensingClient = new LicensingClient(client());
        License license = TestUtils.generateSignedLicense(TimeValue.timeValueMinutes(1));
        putLicense(license);
assertThat(licensingClient.prepareGetLicense().get().license(), equalTo(license));
assertOperationMode(license.operationMode());

logger.info("--> restart all nodes");
internalCluster().fullRestart();
ensureYellow();
licensingClient = new LicensingClient(client());
logger.info("--> get and check signed license");
assertThat(licensingClient.prepareGetLicense().get().license(), equalTo(license));
logger.info("--> remove licenses");
licensingClient.prepareDeleteLicense().get();
assertOperationMode(License.OperationMode.MISSING);

logger.info("--> restart all nodes");
internalCluster().fullRestart();
licensingClient = new LicensingClient(client());
ensureYellow();
assertThat(licensingClient.prepareGetLicense().get().license(), nullValue());
assertOperationMode(License.OperationMode.MISSING);

wipeAllLicenses();
}

public void testCloudInternalLicense() throws Exception {
    wipeAllLicenses();

    int numNodes = randomIntBetween(1, 5);
    logger.info("--> starting {} node(s)", numNodes);
    internalCluster().startNodes(numNodes);
    ensureGreen();

    logger.info("--> put signed license");
    LicensingClient licensingClient = new LicensingClient(client());
    License license = TestUtils.generateSignedLicense("cloud_internal", License.VERSION_CURRENT, System.currentTimeMillis(), TimeValue.timeValueMinutes(1));
    putLicense(license);
    assertThat(licensingClient.prepareGetLicense().get().license(), equalTo(license));
    assertOperationMode(License.OperationMode.PLATINUM);
    writeCloudInternalMode("gold");
    assertOperationMode(License.OperationMode.GOLD);
    writeCloudInternalMode("basic");
    assertOperationMode(License.OperationMode.BASIC);
}

public void testClusterRestartWhileEnabled() throws Exception {
    wipeAllLicenses();

internalCluster().startNode();
ensureGreen();
assertLicenseActive(true);
logger.info("--> restart node");
internalCluster().fullRestart();
ensureYellow();
logger.info("--> await node for enabled");
assertLicenseActive(true);
}

class TestClusterRestartWhileGrace extends ClusterIntegrationTest {
    private void assertOperationMode(License.OperationMode operationMode) throws InterruptedException {
        boolean success = awaitBusy(() -> {
            for (XPackLicenseState licenseState : internalCluster().getDataNodeInstances(XPackLicenseState.class)) {
                if (licenseState.getOperationMode() == operationMode) {
                    return true;
                }
            }
            return false;
        });
    }

    public void testClusterRestartWhileGrace() throws Exception {
        wipeAllLicenses();
        internalCluster().startNode();
        assertLicenseActive(true);
        putLicense(TestUtils.generateSignedLicense(TimeValue.timeValueMillis(0)));
        ensureGreen();
        assertLicenseActive(true);
        logger.info("--> restart node");
        internalCluster().fullRestart();
        ensureYellow();
        logger.info("--> await node for grace_period");
        assertLicenseActive(true);
    }

    public void testClusterRestartWhileExpired() throws Exception {
        wipeAllLicenses();
        internalCluster().startNode();
        ensureGreen();
        assertLicenseActive(true);
        putLicense(TestUtils.generateExpiredNonBasicLicense(System.currentTimeMillis() -
                LicenseService.GRACE_PERIOD_DURATION.getMillis()));
        assertLicenseActive(false);
        logger.info("--> restart node");
        internalCluster().fullRestart();
        ensureYellow();
        logger.info("--> await node for disabled");
        assertLicenseActive(false);
    }

    private void wipeAllLicenses() {
        for (XPackLicenseState licenseState : internalCluster().getDataNodeInstances(XPackLicenseState.class)) {
            licenseState.delete();
        }
    }

    private void assertLicenseActive(boolean active) {
        for (XPackLicenseState licenseState : internalCluster().getDataNodeInstances(XPackLicenseState.class)) {
            assertEquals(licenseState.getActive(), active);
        }
    }

    private void putLicense(License license) {
        LicenseServiceLicenseHelper.putLicense(licens

```java
assertTrue(success);
}

private void writeCloudInternalMode(String mode) throws Exception {
    for (Environment environment : internalCluster().getDataOrMasterNodeInstances(Environment.class)) {
        Path licenseModePath = XPackPlugin.resolveConfigFile(environment, "license_mode");
        Files.createDirectories(licenseModePath.getParent());
        Files.write(licenseModePath, mode.getBytes(StandardCharsets.UTF_8));
    }
}

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 */

package org.elasticsearch.license;

import org.elasticsearch.ElasticsearchSecurityException;
import org.elasticsearch.test.ESTestCase;
import java.util.Arrays;
import static org.hamcrest.Matchers.contains;
import static org.hamcrest.Matchers.equalTo;
import static org.hamcrest.Matchers.hasSize;

public class LicenseUtilsTests extends ESTestCase {

    public void testNewExpirationException() {
        for (String feature : Arrays.asList("feature", randomAlphaOfLength(5), null, "")) {
            ElasticsearchSecurityException exception = LicenseUtils.newComplianceException(feature);
            assertNotNull(exception);
            assertThat(exception.getMetadataKeys(), contains(LicenseUtils.EXPIRED_FEATURE_METADATA));
            assertThat(exception.getMetadata(LicenseUtils.EXPIRED_FEATURE_METADATA), hasSize(1));
            assertThat(exception.getMetadata(LicenseUtils.EXPIRED_FEATURE_METADATA).iterator().next(),
                    equalTo(feature));
        }
    }

    public void testIsLicenseExpiredException() {
        ElasticsearchSecurityException exception = LicenseUtils.newComplianceException("feature");
        assertTrue(LicenseUtils.isLicenseExpiredException(exception));
        exception = new ElasticsearchSecurityException("msg");
        assertFalse(LicenseUtils.isLicenseExpiredException(exception));
    }
```
open source used in application centric infrastructure service engine (aci-se) 1.1

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 */

package org.elasticsearch.license;

import org.elasticsearch.test.ESTestCase;
import org.elasticsearch.watcher.FileWatcher;
import org.elasticsearch.watcher.ResourceWatcherService;
import org.junit.Before;
import java.nio.file.Path;
import static org.hamcrest.Matchers.equalTo;
import static org.mockito.Matchers.any;
import static org.mockito.Matchers.eq;
import static org.mockito.Mockito.mock;
import static org.mockito.Mockito.times;
import static org.mockito.Mockito.verify;
import static org.mockito.Mockito.verifyZeroInteractions;

public class LicenseOperationModeUpdateTests extends ESTestCase {

private OperationModeFileWatcher operationModeFileWatcher;
private Path licenseModeFile;
private ResourceWatcherService resourceWatcherService;

@Before
public void init() throws Exception {
    licenseModeFile = createTempFile();
    resourceWatcherService = mock(ResourceWatcherService.class);
    operationModeFileWatcher = new OperationModeFileWatcher(resourceWatcherService, licenseModeFile,
        logger, () -> {});
}

public void testLicenseOperationModeUpdate() throws Exception {
    String type = randomFrom("trial", "basic", "standard", "gold", "platinum");
    License license = License.builder()
        .uid("id")
        .expiryDate(0)
        .issueDate(0)
        .issuedTo("elasticsearch")
        .issuer("issuer")
        .type(type)
        .maxNodes(1)
        .build();
}
assertThat(license.operationMode(), equalTo(License.OperationMode.resolve(type))); OperationModeFileWatcherTests.writeMode("gold", licenseModeFile); license.setOperationModeFileWatcher(operationModeFileWatcher); verifyZeroInteractions(resourceWatcherService); 
assertThat(license.operationMode(), equalTo(License.OperationMode.resolve(type))); } 

public void testCloudInternalLicenseOperationModeUpdate() throws Exception { 

License license = License.builder() 
 .uid("id") 
 .expiryDate(0) 
 .issueDate(0) 
 .issuedTo("elasticsearch") 
 .issuer("issuer") 
 .type("cloud_internal") 
 .maxNodes(1) 
 .build();

assertThat(license.operationMode(), equalTo(License.OperationMode.PLATINUM)); 
OperationModeFileWatcherTests.writeMode("gold", licenseModeFile); 
license.setOperationModeFileWatcher(operationModeFileWatcher); 
verify(resourceWatcherService, times(1)).add(any(FileWatcher.class), 
eq(ResourceWatcherService.Frequency.HIGH)); 
assertThat(license.operationMode(), equalTo(License.OperationMode.GOLD)); 
}

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 */

package org.elasticsearch.license;

import org.elasticsearch.common.unit.TimeValue;
import org.elasticsearch.test.ESTestCase;
import org.elasticsearch.xpack.core.scheduler.SchedulerEngine;
import org.junit.Before;
import static org.hamcrest.Matchers.equalTo;

public class LicenseScheduleTests extends ESTestCase {

private License license;
private SchedulerEngine.Schedule schedule;

@Before
public void setuo() throws Exception {

import static org.hamcrest.Matchers.equalTo;

public class LicenseScheduleTests extends ESTestCase {

private License license;
private SchedulerEngine.Schedule schedule;

@Before
public void setuo() throws Exception {

import static org.hamcrest.Matchers.equalTo;

public class LicenseScheduleTests extends ESTestCase {

private License license;
private SchedulerEngine.Schedule schedule;

@Before
public void setuo() throws Exception {

import static org.hamcrest.Matchers.equalTo;
license = TestUtils.generateSignedLicense(TimeValue.timeValueHours(12));
schedule = LicenseService.nextLicenseCheck(license);
}
public void testEnabledLicenseSchedule() throws Exception {
    int expiryDuration = (int) (license.expiryDate() - license.issueDate());
    long triggeredTime = license.issueDate() + between(0, expiryDuration);
    assertThat(schedule.nextScheduledTimeAfter(license.issueDate(), triggeredTime),
        equalTo(license.expiryDate()));
}
public void testGraceLicenseSchedule() throws Exception {
    long triggeredTime = license.issueDate() + between(1,
        (int) LicenseService.GRACE_PERIOD_DURATION.getMillis());
    assertThat(schedule.nextScheduledTimeAfter(license.issueDate(), triggeredTime),
        equalTo(license.expiryDate() + LicenseService.GRACE_PERIOD_DURATION.getMillis()));
}
public void testExpiredLicenseSchedule() throws Exception {
    long triggeredTime = license.issueDate() + LicenseService.GRACE_PERIOD_DURATION.getMillis() +
        randomIntBetween(1, 1000);
    assertThat(schedule.nextScheduledTimeAfter(license.issueDate(), triggeredTime),
        equalTo(-1L));
}
public void testInvalidLicenseSchedule() throws Exception {
    long triggeredTime = license.issueDate() - randomIntBetween(1, 1000);
    assertThat(schedule.nextScheduledTimeAfter(triggeredTime, triggeredTime),
        equalTo(license.issueDate()));
}
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 */
package org.elasticsearch.license;
import org.elasticsearch.common.unit.TimeValue;
import org.elasticsearch.test.ESTestCase;
import static org.elasticsearch.common.unit.TimeValue.timeValueMillis;
import static org.hamcrest.Matchers.equalTo;
import static org.hamcrest.Matchers.nullValue;
public class ExpirationCallbackTests extends ESTestCase {
    public void testPostExpirationDelay() throws Exception {
        
    
}
TimeValue expiryDuration = TimeValue.timeValueSeconds(randomIntBetween(5, 10));
TimeValue min = TimeValue.timeValueSeconds(1);
TimeValue max = TimeValue.timeValueSeconds(4);
TimeValue frequency = TimeValue.timeValueSeconds(1);
NoopPostExpirationCallback post = new NoopPostExpirationCallback(min, max, frequency);
long now = System.currentTimeMillis();
long expiryDate = now + expiryDuration.getMillis();
assertThat(post.delay(expiryDate, now),
        equalTo(TimeValue.timeValueMillis(expiryDuration.getMillis() + min.getMillis()))); // before license expiry
assertThat(post.delay(expiryDate, expiryDate), equalTo(min)); // on license expiry
int latestValidTriggerDelay = (int) (expiryDuration.getMillis() + max.getMillis());
int earliestValidTriggerDelay = (int) (expiryDuration.getMillis() + min.getMillis());
assertExpirationCallbackDelay(post, expiryDuration.millis(), latestValidTriggerDelay,
                               earliestValidTriggerDelay);
}

public void testPreExpirationDelay() throws Exception {
    TimeValue expiryDuration = TimeValue.timeValueSeconds(randomIntBetween(5, 10));
    TimeValue min = TimeValue.timeValueSeconds(1);
    TimeValue max = TimeValue.timeValueSeconds(4);
    TimeValue frequency = TimeValue.timeValueSeconds(1);
    NoopPreExpirationCallback pre = new NoopPreExpirationCallback(min, max, frequency);
    long now = System.currentTimeMillis();
    long expiryDate = now + expiryDuration.getMillis();
    assertThat(pre.delay(expiryDate, expiryDate), nullValue()); // on license expiry
    int latestValidTriggerDelay = (int) (expiryDuration.getMillis() - min.getMillis());
    int earliestValidTriggerDelay = (int) (expiryDuration.getMillis() - max.getMillis());
    assertExpirationCallbackDelay(pre, expiryDuration.millis(), latestValidTriggerDelay,
                                   earliestValidTriggerDelay);
}

public void testPostExpirationWithNullMax() throws Exception {
    int postExpirySeconds = randomIntBetween(5, 10);
    TimeValue postExpiryDuration = TimeValue.timeValueSeconds(postExpirySeconds);
    TimeValue min = TimeValue.timeValueSeconds(postExpirySeconds - randomIntBetween(1, 3));

    final ExpirationCallback.Post post = new NoopPostExpirationCallback(min, null, timeValueMillis(10));
    long now = System.currentTimeMillis();
    assertThat(post.delay(now - postExpiryDuration.millis(), now), equalToTimeValueMillis(0));
}

public void testPreExpirationWithNullMin() throws Exception {
    int expirySeconds = randomIntBetween(5, 10);
    TimeValue expiryDuration = TimeValue.timeValueSeconds(expirySeconds);
    TimeValue max = TimeValue.timeValueSeconds(expirySeconds + randomIntBetween(1, 10));

    final ExpirationCallback.Pre pre = new NoopPreExpirationCallback(null, max, timeValueMillis(10));

long now = System.currentTimeMillis();
assertThat(pre.delay(expiryDuration.millis() + now, now), equalTo(TimeValue.timeValueMillis(0)));
}

public void testPreExpirationScheduleTime() throws Exception {
    TimeValue expiryDuration = TimeValue.timeValueSeconds(randomIntBetween(5, 10));
    TimeValue min = TimeValue.timeValueSeconds(1);
    TimeValue max = TimeValue.timeValueSeconds(4);
    TimeValue frequency = TimeValue.timeValueSeconds(1);
    NoopPreExpirationCallback pre = new NoopPreExpirationCallback(min, max, frequency);
    int latestValidTriggerDelay = (int) (expiryDuration.getMillis() - min.getMillis());
    int earliestValidTriggerDelay = (int) (expiryDuration.getMillis() - max.getMillis());
    assertExpirationCallbackScheduleTime(pre, expiryDuration.millis(), latestValidTriggerDelay,
                                        earliestValidTriggerDelay);
}

public void testPostExpirationScheduleTime() throws Exception {
    TimeValue expiryDuration = TimeValue.timeValueSeconds(randomIntBetween(5, 10));
    TimeValue min = TimeValue.timeValueSeconds(1);
    TimeValue max = TimeValue.timeValueSeconds(4);
    TimeValue frequency = TimeValue.timeValueSeconds(1);
    NoopPostExpirationCallback pre = new NoopPostExpirationCallback(min, max, frequency);
    int latestValidTriggerDelay = (int) (expiryDuration.getMillis() + max.getMillis());
    int earliestValidTriggerDelay = (int) (expiryDuration.getMillis() + min.getMillis());
    assertExpirationCallbackScheduleTime(pre, expiryDuration.millis(), latestValidTriggerDelay,
                                        earliestValidTriggerDelay);
}

private void assertExpirationCallbackDelay(ExpirationCallback expirationCallback, long expiryDuration,
                                           int latestValidTriggerDelay, int earliestValidTriggerDelay) {
    long now = System.currentTimeMillis();
    long expiryDate = now + expiryDuration;
    // bounds
    assertThat(expirationCallback.delay(expiryDate, now + earliestValidTriggerDelay),
               equalTo(TimeValue.timeValueMillis(0)));
    assertThat(expirationCallback.delay(expiryDate, now + latestValidTriggerDelay),
               equalTo(TimeValue.timeValueMillis(0)));
    // in match
    assertThat(expirationCallback.delay(expiryDate, now + randomIntBetween(earliestValidTriggerDelay,
                                                                           latestValidTriggerDelay)),
               equalTo(TimeValue.timeValueMillis(0)));
    // out of bounds
    int deltaBeforeEarliestMatch = between(1, earliestValidTriggerDelay);
    assertThat(expirationCallback.delay(expiryDate, now + deltaBeforeEarliestMatch),
               equalTo(TimeValue.timeValueMillis(earliestValidTriggerDelay - deltaBeforeEarliestMatch)));
    int deltaAfterLatestMatch = between(latestValidTriggerDelay + 1, Integer.MAX_VALUE); // after expiry and
                                    // after max
    assertThat(expirationCallback.delay(expiryDate, expiryDate + deltaAfterLatestMatch), nullValue());
public void assertExpirationCallbackScheduleTime(ExpirationCallback expirationCallback, long expiryDuration, int latestValidTriggerDelay, int earliestValidTriggerDelay) {
    long now = System.currentTimeMillis();
    long expiryDate = now + expiryDuration;
    int validTriggerInterval = between(earliestValidTriggerDelay, latestValidTriggerDelay);
    assertThat(expirationCallback.nextScheduledTimeForExpiry(expiryDate, now + validTriggerInterval, now + validTriggerInterval), equalTo(now + validTriggerInterval));
    assertThat(expirationCallback.nextScheduledTimeForExpiry(expiryDate, now, now + validTriggerInterval), equalTo(now + validTriggerInterval + expirationCallback.getFrequency()));

    int deltaBeforeEarliestMatch = between(1, earliestValidTriggerDelay - 1);
    assertThat(expirationCallback.nextScheduledTimeForExpiry(expiryDate, now, now + deltaBeforeEarliestMatch), equalTo(now + deltaBeforeEarliestMatch + expirationCallback.delay(expiryDate, now + deltaBeforeEarliestMatch).getMillis()));
    assertThat(expirationCallback.nextScheduledTimeForExpiry(expiryDate, now + deltaBeforeEarliestMatch, now + deltaBeforeEarliestMatch), equalTo(now + deltaBeforeEarliestMatch + expirationCallback.delay(expiryDate, now + deltaBeforeEarliestMatch).getMillis()));

    int deltaAfterLatestMatch = between(latestValidTriggerDelay + 1, Integer.MAX_VALUE); // after expiry and after max
    assertThat(expirationCallback.nextScheduledTimeForExpiry(expiryDate, now, now + deltaAfterLatestMatch), equalTo(-1L));
    assertThat(expirationCallback.nextScheduledTimeForExpiry(expiryDate, now + deltaAfterLatestMatch, now + deltaAfterLatestMatch), equalTo(-1L));
}

private static class NoopPostExpirationCallback extends ExpirationCallback.Post {
    NoopPostExpirationCallback(TimeValue min, TimeValue max, TimeValue frequency) {
        super(min, max, frequency);
    }

    @Override
    public void on(License license) {
    }
}

private static class NoopPreExpirationCallback extends ExpirationCallback.Pre {
    NoopPreExpirationCallback(TimeValue min, TimeValue max, TimeValue frequency) {
        super(min, max, frequency);
    }
}
@Override
    public void on(License license) {}
}
}
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 */
package org.elasticsearch.license;

import com.carrotsearch.randomizedtesting.RandomizedTest;
import org.elasticsearch.Version;
import org.elasticsearch.action.ActionListener;
import org.elasticsearch.cluster.metadata.MetaData;
import org.elasticsearch.common.Strings;
import org.elasticsearch.common.joda.DateMathParser;
import org.elasticsearch.common.joda.FormatDateTimeFormatter;
import org.elasticsearch.common.joda.Joda;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.unit.TimeValue;
import org.elasticsearch.common.xcontent.ToXContent;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.common.xcontent.XContentType;
import org.elasticsearch.license.licensor.LicenseSigner;
import org.hamcrest.MatcherAssert;
import org.joda.time.format.DateTimeFormatter;
import org.junit.Assert;
import java.io.IOException;
import java.io.InputStream;
import java.nio.file.Files;
import java.nio.file.Path;
import java.nio.file.StandardCopyOption;
import java.util.ArrayList;
import java.util.List;
import java.util.UUID;
import java.util.concurrent.CountDownLatch;
import java.util.concurrent.atomic.AtomicReference;
import static com.carrotsearch.randomizedtesting.RandomizedTest.randomBoolean;
import static com.carrotsearch.randomizedtesting.RandomizedTest.randomInt;
import static org.apache.lucene.util.LuceneTestCase.createTempFile;
import static org.elasticsearch.common.xcontent.XContentFactory.jsonBuilder;
import static org.elasticsearch.test.ESTestCase.randomAlphaOfLength;
import static org.elasticsearch.test.ESTestCase.randomFrom;
import static org.elasticsearch.test.ESTestCase.randomIntBetween;

import static java.io.IOException.
import static java.nio.file.Files.
import static java.nio.file.Paths.
import static java.nio.file.StandardCopyOption.
import static java.util.ArrayList.
import static java.util.List.
import static java.util.UUID.
import static java.util.concurrent.CountDownLatch.
import static java.util.concurrent.atomic.AtomicReference.
import static com.carrotsearch.randomizedtesting.RandomizedTest.
import static com.carrotsearch.randomizedtesting.RandomizedTest.
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import static org.elasticsearch.common.xcontent.XContentFactory.
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import static java.nio.file.Paths.
import static java.nio.file.StandardCopyOption.
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import static org.elasticsearch.test.ESTestCase.
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import static java.nio.file.Paths.
import static java.nio.file.StandardCopyOption.
import static java.util.ArrayList.
import static java.util.List.
import static java.util.UUID.
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import static java.util.concurrent.atomic.AtomicReference.
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import static java.nio.file.StandardCopyOption.
import static java.util.ArrayList.
import static java.util.List.
import static java.util.UUID.
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import static java.util.concurrent.atomic.AtomicReference.
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import static org.elasticsearch.test.ESTestCase.
import static java.io.IOException.
import static java.nio.file.Files.
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import static java.util.concurrent.atomic.AtomicReference.
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import static org.elasticsearch.test.ESTestCase.
import static java.io.IOException.
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import static java.nio.file.Paths.
import static java.nio.file.StandardCopyOption.
import static java.util.ArrayList.
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import static java.util.UUID.
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import static java.util.concurrent.atomic.AtomicReference.
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import static com.carrotsearch.randomizedtesting.RandomizedTest.
import static org.apache.lucene.util.LuceneTestCase.
import static org.elasticsearch.common.xcontent.XContentFactory.
import static org.elasticsearch.test.ESTestCase.
import static org.hamcrest.core.IsEqual.equalTo;
import static org.junit.Assert.assertThat;

class TestUtils {
    private static final FormatDateTimeFormatter formatDateTimeFormatter = Joda.forPattern("yyyy-MM-dd");
    private static final DateMathParser dateMathParser = new DateMathParser(formatDateTimeFormatter);
    private static final DateTimeFormatter dateTimeFormatter = formatDateTimeFormatter.printer();

    public static String dateMathString(String time, final long now) {
        return dateTimeFormatter.print(dateMathParser.parse(time, () -> now));
    }

    public static long dateMath(String time, final long now) {
        return dateMathParser.parse(time, () -> now);
    }

    public static LicenseSpec generateRandomLicenseSpec(int version) {
        boolean datesInMillis = randomBoolean();
        long now = System.currentTimeMillis();
        String uid = UUID.randomUUID().toString();
        String feature = "feature__" + randomInt();
        String issuer = "issuer__" + randomInt();
        String issuedTo = "issuedTo__" + randomInt();
        final String type;
        final String subscriptionType;
        if (version < License.VERSION_NO_FEATURE_TYPE) {
            subscriptionType = randomFrom("gold", "silver", "platinum");
            type = "subscription";
        } else {
            subscriptionType = null;
            type = randomFrom("basic", "dev", "gold", "silver", "platinum");
        }
        int maxNodes = RandomizedTest.randomIntBetween(5, 100);
        if (datesInMillis) {
            long issueDateInMillis = dateMath("now", now);
            long expiryDateInMillis = dateMath("now+10d/d", now);
            return new LicenseSpec(version, uid, feature, issueDateInMillis, expiryDateInMillis, type, subscriptionType,
                                    issuedTo, issuer, maxNodes);
        } else {
            String issueDate = dateMathString("now", now);
            String expiryDate = dateMathString("now+10d/d", now);
            return new LicenseSpec(version, uid, feature, issueDate, expiryDate, type, subscriptionType, issuedTo,
                                    issuer, maxNodes);
        }
    }
public static String generateLicenseSpecString(LicenseSpec licenseSpec) throws IOException {
    XContentBuilder licenses = jsonBuilder();
    licenses.startObject();
    licenses.startArray("licenses");
    licenses.startObject()
        .field("uid", licenseSpec.uid)
        .field("type", licenseSpec.type)
        .field("subscription_type", licenseSpec.subscriptionType)
        .field("issued_to", licenseSpec.issuedTo)
        .field("issuer", licenseSpec.issuer)
        .field("feature", licenseSpec.feature)
        .field("max_nodes", licenseSpec.maxNodes);

    if (licenseSpec.issueDate != null) {
        licenses.field("issue_date", licenseSpec.issueDate);
    } else {
        licenses.field("issue_date_in_millis", licenseSpec.issueDateInMillis);
    }

    if (licenseSpec.expiryDate != null) {
        licenses.field("expiry_date", licenseSpec.expiryDate);
    } else {
        licenses.field("expiry_date_in_millis", licenseSpec.expiryDateInMillis);
    }

    licenses.field("version", licenseSpec.version);
    licenses.endObject();
    licenses.endArray();
    licenses.endObject();
    return Strings.toString(licenses);
}

public static License generateLicenses(LicenseSpec spec) {
    License.Builder builder = License.builder()
        .uid(spec.uid)
        .feature(spec.feature)
        .type(spec.type)
        .subscriptionType(spec.subscriptionType)
        .issuedTo(spec.issuedTo)
        .issuer(spec.issuer)
        .maxNodes(spec.maxNodes);

    if (spec.expiryDate != null) {
        builder.expiryDate(DateUtils.endOfTheDay(spec.expiryDate));
    } else {
        builder.expiryDate(spec.expiryDateInMillis);
    }

    if (spec.issueDate != null) {
        builder.issueDate(DateUtils.beginningOfTheDay(spec.issueDate));
    } else {

builder.issueDate(spec.issueDateInMillis);
}
return builder.build();

public static void assertLicenseSpec(LicenseSpec spec, License license) {
    MatcherAssert.assertThat(license.uid(), equalTo(spec.uid));
    MatcherAssert.assertThat(license.issuedTo(), equalTo(spec.issuedTo));
    MatcherAssert.assertThat(license.issuer(), equalTo(spec.issuer));
    MatcherAssert.assertThat(license.type(), equalTo(spec.type));
    MatcherAssert.assertThat(license.maxNodes(), equalTo(spec.maxNodes));
    if (spec.issueDate != null) {
        MatcherAssert.assertThat(license.issueDate(), equalTo(DateUtils.beginningOfTheDay(spec.issueDate)));
    } else {
        MatcherAssert.assertThat(license.issueDate(), equalTo(spec.issueDateInMillis));
    }
    if (spec.expiryDate != null) {
        MatcherAssert.assertThat(license.expiryDate(), equalTo(DateUtils.endOfTheDay(spec.expiryDate)));
    } else {
        MatcherAssert.assertThat(license.expiryDate(), equalTo(spec.expiryDateInMillis));
    }
}

public static class LicenseSpec {
    public final int version;
    public final String feature;
    public final String issueDate;
    public final long issueDateInMillis;
    public final String expiryDate;
    public final long expiryDateInMillis;
    public final String uid;
    public final String type;
    public final String subscriptionType;
    public final String issuedTo;
    public final String issuer;
    public final int maxNodes;

    public LicenseSpec(String issueDate, String expiryDate) {
        this(License.VERSION_CURRENT, UUID.randomUUID().toString(), "feature", issueDate, expiryDate, "trial", "none", "customer", "elasticsearch", 5);
    }

    public LicenseSpec(int version, String uid, String feature, long issueDateInMillis, long expiryDateInMillis, String type,
        String subscriptionType, String issuedTo, String issuer, int maxNodes) {
        this.version = version;
        this.feature = feature;
this.issueDateInMillis = issueDateInMillis;
this.issueDate = null;
this.expiryDateInMillis = expiryDateInMillis;
this.expiryDate = null;
this.uid = uid;
this.type = type;
this.subscriptionType = subscriptionType;
this.issuedTo = issuedTo;
this.issuer = issuer;
this.maxNodes = maxNodes;
}

public LicenseSpec(int version, String uid, String feature, String issueDate, String expiryDate, String type,
                   String subscriptionType, String issuedTo, String issuer, int maxNodes) {
    this.version = version;
    this.feature = feature;
    this.issueDate = issueDate;
    this.issueDateInMillis = -1;
    this.expiryDate = expiryDate;
    this.expiryDateInMillis = -1;
    this.uid = uid;
    this.type = type;
    this.subscriptionType = subscriptionType;
    this.issuedTo = issuedTo;
    this.issuer = issuer;
    this.maxNodes = maxNodes;
}

public static Path getTestPriKeyPath() throws Exception {
    return getResourcePath("/private.key");
}

public static Path getTestPubKeyPath() throws Exception {
    return getResourcePath("/public.key");
}

public static String dumpLicense(License license) throws Exception {
    XContentBuilder builder = XContentFactory.contentBuilder(XContentType.JSON);
    builder.startObject();
    builder.startObject("license");
    license.toInnerXContent(builder, ToXContent.EMPTY_PARAMS);
    builder.endObject();
    builder.endObject();
    return Strings.toString(builder);
}

public static License generateSignedLicense(TimeValue expiryDuration) throws Exception {
    // Implementation code

    // Return the generated signed license
    return signedLicense;
}
public static License generateSignedLicense(String type, TimeValue expiryDuration) throws Exception {
    return generateSignedLicense(type, -1, expiryDuration);
}

public static License generateSignedLicense(long issueDate, TimeValue expiryDuration) throws Exception {
    return generateSignedLicense(null, issueDate, expiryDuration);
}

public static License generateSignedLicense(String type, long issueDate, TimeValue expiryDuration) throws Exception {
    return generateSignedLicense(type, randomIntBetween(License.VERSION_START, License.VERSION_CURRENT), issueDate, expiryDuration);
}

public static License generateSignedLicense(String type, int version, long issueDate, TimeValue expiryDuration) throws Exception {
    long issue = (issueDate != -1L) ? issueDate : System.currentTimeMillis() - TimeValue.timeValueHours(2).getMillis();
    final String licenseType;
    if (version < License.VERSION_NO_FEATURE_TYPE) {
        licenseType = randomFrom("subscription", "internal", "development");
    } else {
        licenseType = (type != null) ? randomFrom("silver", "dev", "gold", "platinum");
    }
    final License.Builder builder = License.builder()
        .uid(UUID.randomUUID().toString())
        .version(version)
        .expiryDate(System.currentTimeMillis() + expiryDuration.getMillis())
        .issueDate(issue)
        .type(licenseType)
        .issuedTo("customer")
        .issuer("elasticsearch")
        .maxNodes(5);
    if (version == License.VERSION_START) {
        builder.subscriptionType((type != null) ? randomFrom("dev", "gold", "platinum", "silver");
        builder.feature(randomAlphaOfLength(10));
    }
    LicenseSigner signer = new LicenseSigner(getTestPriKeyPath(), getTestPubKeyPath());
    return signer.sign(builder.build());
}
public static License generateSignedLicense(License.Builder builder) throws Exception {
    LicenseSigner signer = new LicenseSigner(getTestPriKeyPath(), getTestPubKeyPath());
    return signer.sign(builder.build());
}

public static License generateExpiredNonBasicLicense(long expiryDate) throws Exception {
    return generateExpiredNonBasicLicense(randomFrom("silver", "dev", "gold", "platinum"), expiryDate);
}

public static License generateExpiredNonBasicLicense() throws Exception {
    return generateExpiredNonBasicLicense(randomFrom("silver", "dev", "gold", "platinum"));
}

public static License generateExpiredNonBasicLicense(String type) throws Exception {
    return generateExpiredNonBasicLicense(type,
            System.currentTimeMillis() - TimeValue.timeValueHours(randomIntBetween(1, 10)).getMillis());
}

public static License generateExpiredNonBasicLicense(String type, long expiryDate) throws Exception {
    final License.Builder builder = License.builder()
            .uid(UUID.randomUUID().toString())
            .version(License.VERSION_CURRENT)
            .expiryDate(expiryDate)
            .issueDate(expiryDate - TimeValue.timeValueMinutes(10).getMillis())
            .type(type)
            .issuedTo("customer")
            .issuer("elasticsearch")
            .maxNodes(5);
    LicenseSigner signer = new LicenseSigner(getTestPriKeyPath(), getTestPubKeyPath());
    return signer.sign(builder.build());
}

private static Path getResourcePath(String resource) throws Exception {
    Path resourceFile = createTempFile();
    try (InputStream resourceInput = TestUtils.class.getResourceAsStream(resource)) {
        Files.copy(resourceInput, resourceFile, StandardCopyOption.REPLACE_EXISTING);
    }
    return resourceFile;
}

public static void registerAndAckSignedLicenses(final LicenseService licenseService, License license,
        final LicensesStatus expectedStatus) {
    PutLicenseRequest putLicenseRequest = new PutLicenseRequest().license(license).acknowledge(true);
    final CountDownLatch latch = new CountDownLatch(1);
    final AtomicReference<LicensesStatus> status = new AtomicReference<>();
    licenseService.registerLicense(putLicenseRequest, new ActionListener<PutLicenseResponse>() {
        @Override
        public void onResponse(PutLicenseResponse licensesUpdateResponse) {

            ...
        }
        @Override
        public void onFailure(Exception e) {
            ...
        }
    });
    latch.await();
    status.get();
}

public static void main(String[] args) {
    ...
}
status.set(licensesUpdateResponse.status());
latch.countDown();

@Override
public void onFailure(Exception e) {
    latch.countDown();
}
}
}
}
}
}
}
}

public static class AssertingLicenseState extends XPackLicenseState {
    public final List<License.OperationMode> modeUpdates = new ArrayList<>();
    public final List<Boolean> activeUpdates = new ArrayList<>();
    public final List<Version> trialVersionUpdates = new ArrayList<>();

    public AssertingLicenseState() {
        super(Settings.EMPTY);
    }

    @Override
    void update(License.OperationMode mode, boolean active, Version mostRecentTrialVersion) {
        modeUpdates.add(mode);
        activeUpdates.add(active);
        trialVersionUpdates.add(mostRecentTrialVersion);
    }
}

/**
 * A license state that makes the {link update(License.OperationMode, boolean, Version)} method public for use in tests.
 */
public static class UpdatableLicenseState extends XPackLicenseState {
    public UpdatableLicenseState() {
        this(Settings.EMPTY);
    }

    public UpdatableLicenseState(Settings settings) {
        super(settings);
    }

    @Override
}
public void update(License.OperationMode mode, boolean active, Version mostRecentTrialVersion) {
    super.update(mode, active, mostRecentTrialVersion);
}

public static void putLicense(MetaData.Builder builder, License license) {
    builder.putCustom(LicensesMetaData.TYPE, new LicensesMetaData(license, null));
}

import org.elasticsearch.action.ActionListener;
import org.elasticsearch.cluster.ClusterStateUpdateTask;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.unit.TimeValue;
import static org.elasticsearch.common.unit.TimeValue.timeValueHours;
import static org.hamcrest.Matchers.equalTo;
import static org.hamcrest.Matchers.not;
import static org.mockito.Matchers.any;
import static org.mockito.Mockito.times;
import static org.mockito.Mockito.verify;

public class LicensesAcknowledgementTests extends AbstractLicenseServiceTestCase {
    public void testAcknowledgment() throws Exception {
        XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
        setInitialState(TestUtils.generateSignedLicense("gold", timeValueHours(2)), licenseState, Settings.EMPTY);
        licenseService.start();
        // try installing a signed license
        long issueDate = System.currentTimeMillis() - TimeValue.timeValueHours(24 * 2).getMillis();
        License signedLicense = TestUtils.generateSignedLicense("trial", License.VERSION_CURRENT, issueDate,
                timeValueHours(10));
        PutLicenseRequest putLicenseRequest = new PutLicenseRequest().license(signedLicense);
        // ensure acknowledgement message was part of the response
        licenseService.registerLicense(putLicenseRequest, new AssertingLicensesUpdateResponse(false,
                LicensesStatus.VALID, true));
        assertThat(licenseService.getLicense(), not(signedLicense));
        verify(clusterService, times(0)).submitStateUpdateTask(any(String.class), any(ClusterStateUpdateTask.class));
        // try installing a signed license with acknowledgement
        putLicenseRequest = new PutLicenseRequest().license(signedLicense).acknowledge(true);
        // ensure license was installed and no acknowledgement message was returned
    }
}
licenseService.registerLicense(putLicenseRequest, new AssertingLicensesUpdateResponse(true, LicensesStatus.VALID, false));

verify(clusterService, times(1)).submitStateUpdateTask(any(String.class), any(ClusterStateUpdateTask.class));
}

public void testRejectUpgradeToProductionWithoutTLS() throws Exception {
XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
setInitialState(TestUtils.generateSignedLicense("trial", timeValueHours(2)), licenseState, Settings.EMPTY);
licenseService.start();

// try installing a signed license
License signedLicense = TestUtils.generateSignedLicense("platinum", timeValueHours(10));
PutLicenseRequest putLicenseRequest = new PutLicenseRequest().license(signedLicense);

// ensure acknowledgement message was part of the response
IllegalStateException ise = expectThrows(IllegalStateException.class, () ->
    licenseService.registerLicense(putLicenseRequest, new AssertingLicensesUpdateResponse(false, LicensesStatus.VALID, true)));

assertEquals("Cannot install a [PLATINUM] license unless TLS is configured or security is disabled", ise.getMessage());
}

public void testUpgradeToProductionWithoutTLSAndSecurityDisabled() throws Exception {
XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
setInitialState(TestUtils.generateSignedLicense("trial", timeValueHours(2)), licenseState, Settings.builder()
    .put("xpack.security.enabled", false).build());
licenseService.start();

// try installing a signed license
License signedLicense = TestUtils.generateSignedLicense("platinum", timeValueHours(10));
PutLicenseRequest putLicenseRequest = new PutLicenseRequest().license(signedLicense);

licenseService.registerLicense(putLicenseRequest, new AssertingLicensesUpdateResponse(false, LicensesStatus.VALID, true));

assertThat(licenseService.getLicense(), not(signedLicense));
verify(clusterService, times(1)).submitStateUpdateTask(any(String.class), any(ClusterStateUpdateTask.class));

// try installing a signed license with acknowledgement
putLicenseRequest = new PutLicenseRequest().license(signedLicense).acknowledge(true);
// ensure license was installed and no acknowledgement message was returned
licenseService.registerLicense(putLicenseRequest, new AssertingLicensesUpdateResponse(true, LicensesStatus.VALID, false));
verify(clusterService, times(2)).submitStateUpdateTask(any(String.class), any(ClusterStateUpdateTask.class));
}

public void testUpgradeToProductionWithTLSAndSecurity() throws Exception {
XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
setInitialState(TestUtils.generateSignedLicense("trial", timeValueHours(2)), licenseState, Settings.builder()
    .put("xpack.security.enabled", true)
    .put("xpack.security.transport.ssl.enabled", true).build());
licenseService.start();

// try installing a signed license
License signedLicense = TestUtils.generateSignedLicense("platinum", timeValueHours(10));
PutLicenseRequest putLicenseRequest = new PutLicenseRequest().license(signedLicense);
licenseService.registerLicense(putLicenseRequest, new AssertingLicensesUpdateResponse(false, LicensesStatus.VALID, true));
assertThat(licenseService.getLicense(), not(signedLicense));
verify(clusterService, times(1)).submitStateUpdateTask(any(String.class), any(ClusterStateUpdateTask.class));

// try installing a signed license with acknowledgement
putLicenseRequest = new PutLicenseRequest().license(signedLicense).acknowledge(true);
// ensure license was installed and no acknowledgment message was returned
licenseService.registerLicense(putLicenseRequest, new AssertingLicensesUpdateResponse(true, LicensesStatus.VALID, false));
verify(clusterService, times(2)).submitStateUpdateTask(any(String.class), any(ClusterStateUpdateTask.class));
}

private static class AssertingLicensesUpdateResponse implements ActionListener<PutLicenseResponse> {
    private final boolean expectedAcknowledgement;
    private final LicensesStatus expectedStatus;
    private final boolean expectAckMessages;

    AssertingLicensesUpdateResponse(boolean expectedAcknowledgement, LicensesStatus expectedStatus, boolean expectAckMessages) {
        this.expectedAcknowledgement = expectedAcknowledgement;
        this.expectedStatus = expectedStatus;
        this.expectAckMessages = expectAckMessages;
    }

    @Override
    public void onResponse(PutLicenseResponse licensesUpdateResponse) {
        assertThat(licensesUpdateResponse.isAcknowledged(), equalTo(expectedAcknowledgement));
        assertThat(licensesUpdateResponse.status(), equalTo(expectedStatus));
        assertEquals(licensesUpdateResponse.acknowledgeMessages().isEmpty(), expectAckMessages == false);
    }

    @Override
    public void onFailure(Exception throwable) {
        throw new RuntimeException(throwable);
    }
}

package org.elasticsearch.license;

import org.elasticsearch.action.ActionListener;

/*
* Copyright Elasticsearch B.V. and/or licensed to Elasticsearch B.V. under one
* or more contributor license agreements. Licensed under the Elastic License;
* you may not use this file except in compliance with the Elastic License.
*/
package org.elasticsearch.license;

import org.elasticsearch.action.ActionListener;
import org.elasticsearch.cluster.ack.ClusterStateUpdateResponse;
import org.elasticsearch.cluster.service.ClusterService;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.unit.TimeValue;
import org.elasticsearch.plugins.Plugin;
import org.elasticsearch.test.ESSingleNodeTestCase;
import org.elasticsearch.xpack.core.LocalStateCompositeXPackPlugin;
import org.elasticsearch.xpack.core.XPackSettings;
import org.junit.Before;
import java.util.Collection;
import java.util.Collections;
import java.util.concurrent.CountDownLatch;
import java.util.concurrent.atomic.AtomicBoolean;
import static org.hamcrest.Matchers.equalTo;
import static org.hamcrest.Matchers.not;

public class LicensesManagerServiceTests extends ESSingleNodeTestCase {

    @Override
    protected Collection<? extends Plugin> getPlugins() {
        return Collections.singletonList(LocalStateCompositeXPackPlugin.class);
    }

    @Override
    protected Settings nodeSettings() {
        return Settings.builder()
                .put(super.nodeSettings())
                .put(XPackSettings.SECURITY_ENABLED.getKey(), false)
                .put(XPackSettings.MONITORING_ENABLED.getKey(), false)
                .put(XPackSettings.WATCHER_ENABLED.getKey(), false)
                .put(XPackSettings.MACHINE_LEARNING_ENABLED.getKey(), false)
                .build();
    }

    @Override
    protected boolean resetNodeAfterTest() {
        return true;
    }

    @Before
    public void waitForTrialLicenseToBeGenerated() throws Exception {
        assertBusy(() ->
                assertNotNull(getInstanceFromNode(ClusterService.class).state().metaData().custom(LicensesMetaData.TYPE)));
    }
}
public void testStoreAndGetLicenses() throws Exception {
    LicenseService licenseService = getInstanceFromNode(LicenseService.class);
    ClusterService clusterService = getInstanceFromNode(ClusterService.class);
    License goldLicense = TestUtils.generateSignedLicense("gold", TimeValue.timeValueHours(1));
    TestUtils.registerAndAckSignedLicenses(licenseService, goldLicense, LicensesStatus.VALID);
    License silverLicense = TestUtils.generateSignedLicense("silver", TimeValue.timeValueHours(2));
    TestUtils.registerAndAckSignedLicenses(licenseService, silverLicense, LicensesStatus.VALID);
    License platinumLicense = TestUtils.generateSignedLicense("platinum", TimeValue.timeValueHours(1));
    TestUtils.registerAndAckSignedLicenses(licenseService, platinumLicense, LicensesStatus.VALID);
    LicensesMetaData licensesMetaData = clusterService.state().metaData().custom(LicensesMetaData.TYPE);
    assertThat(licensesMetaData.getLicense(), equalTo(platinumLicense));
    final License getLicenses = licenseService.getLicense();
    assertThat(getLicenses, equalTo(platinumLicense));
}

// TODO: Add test/feature blocking the registration of basic license

public void testEffectiveLicenses() throws Exception {
    final LicenseService licenseService = getInstanceFromNode(LicenseService.class);
    final ClusterService clusterService = getInstanceFromNode(ClusterService.class);
    License goldLicense = TestUtils.generateSignedLicense("gold", TimeValue.timeValueSeconds(5));
    // put gold license
    TestUtils.registerAndAckSignedLicenses(licenseService, goldLicense, LicensesStatus.VALID);
    LicensesMetaData licensesMetaData = clusterService.state().metaData().custom(LicensesMetaData.TYPE);
    assertThat(LicenseService.getLicense(licensesMetaData), equalTo(goldLicense));
    License platinumLicense = TestUtils.generateSignedLicense("platinum", TimeValue.timeValueSeconds(3));
    // put platinum license
    TestUtils.registerAndAckSignedLicenses(licenseService, platinumLicense, LicensesStatus.VALID);
    licensesMetaData = clusterService.state().metaData().custom(LicensesMetaData.TYPE);
    assertThat(LicenseService.getLicense(licensesMetaData), equalTo(platinumLicense));
}

public void testInvalidLicenseStorage() throws Exception {
    LicenseService licenseService = getInstanceFromNode(LicenseService.class);
    ClusterService clusterService = getInstanceFromNode(ClusterService.class);
    License signedLicense = TestUtils.generateSignedLicense(TimeValue.timeValueMinutes(2));
    // modify content of signed license
    License tamperedLicense = License.builder()
        .fromLicenseSpec(signedLicense, signedLicense.signature())
        .expiryDate(signedLicense.expiryDate() + 10 * 24 * 60 * 60 * 1000L)
        .validate()
        .build();
    TestUtils.registerAndAckSignedLicenses(licenseService, tamperedLicense, LicensesStatus.INVALID);
    // ensure that the invalid license never made it to cluster state
public void testRemoveLicenses() throws Exception {
    LicenseService licenseService = getInstanceFromNode(LicenseService.class);
    ClusterService clusterService = getInstanceFromNode(ClusterService.class);

    // generate signed licenses
    License license = TestUtils.generateSignedLicense(TimeValue.timeValueHours(1));
    TestUtils.registerAndAckSignedLicenses(licenseService, license, LicensesStatus.VALID);
    LicensesMetaData licensesMetaData = clusterService.state().metaData().custom(LicensesMetaData.TYPE);
    assertThat(licensesMetaData.getLicense(), not(equalTo(tamperedLicense)));

    // remove signed licenses
    removeAndAckSignedLicenses(licenseService);
    licensesMetaData = clusterService.state().metaData().custom(LicensesMetaData.TYPE);
    assertThat(licensesMetaData.getLicense(), equalTo(LicensesMetaData.LICENSE_TOMBSTONE));
}

private void removeAndAckSignedLicenses(final LicenseService licenseService) {
    final CountDownLatch latch = new CountDownLatch(1);
    final AtomicBoolean success = new AtomicBoolean(false);
    licenseService.removeLicense(new DeleteLicenseRequest(), new ActionListener<ClusterStateUpdateResponse>() {
            @Override
            public void onResponse(ClusterStateUpdateResponse clusterStateUpdateResponse) {
                if (clusterStateUpdateResponse.isAcknowledged()) {
                    success.set(true);
                }
                latch.countDown();
            }
            @Override
            public void onFailure(Exception throwable) {
                latch.countDown();
            }
        });
    try {
        latch.await();
    } catch (InterruptedException e) {
        fail(e.getMessage());
    }
    assertThat("remove license(s) failed", success.get(), equalTo(true));
}

/*
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*/
package org.elasticsearch.license;

import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.test.ESTestCase;
import org.elasticsearch.threadpool.TestThreadPool;
import org.elasticsearch.watcher.ResourceWatcherService;
import org.junit.After;
import org.junit.Before;
import java.io.IOException;
import java.nio.charset.StandardCharsets;
import java.nio.file.Files;
import java.nio.file.Path;
import java.nio.file.StandardOpenOption;
import java.util.concurrent.CountDownLatch;
import java.util.concurrent.TimeUnit;
import java.util.concurrent.atomic.AtomicReference;
import static org.hamcrest.Matchers.equalTo;

public class OperationModeFileWatcherTests extends ESTestCase {
    private ResourceWatcherService watcherService;
    private TestThreadPool threadPool;
    private Path licenseModePath;
    private OperationModeFileWatcher operationModeFileWatcher;
    private AtomicReference<CountDownLatch> onChangeCounter;

    @Before
    public void setup() throws Exception {
        threadPool = new TestThreadPool("license mode file watcher tests");
        Settings settings = Settings.builder()
            .put("resource.reload.interval.high", "10ms")
            .build();
        watcherService = new ResourceWatcherService(settings, threadPool);
        watcherService.start();
        licenseModePath = createTempFile();
        onChangeCounter = new AtomicReference<>(new CountDownLatch(1));
        operationModeFileWatcher = new OperationModeFileWatcher(watcherService, licenseModePath, logger,
            () -> onChangeCounter.get().countDown());
    }

    @After
    public void shutdown() throws InterruptedException {
        terminate(threadPool);
    }

    public class OperationModeFileWatcherTests extends ESTestCase {
        private ResourceWatcherService watcherService;
        private TestThreadPool threadPool;
        private Path licenseModePath;
        private OperationModeFileWatcher operationModeFileWatcher;
        private AtomicReference<CountDownLatch> onChangeCounter;

        @Before
        public void setup() throws Exception {
            threadPool = new TestThreadPool("license mode file watcher tests");
            Settings settings = Settings.builder()
                .put("resource.reload.interval.high", "10ms")
                .build();
            watcherService = new ResourceWatcherService(settings, threadPool);
            watcherService.start();
            licenseModePath = createTempFile();
            onChangeCounter = new AtomicReference<>(new CountDownLatch(1));
            operationModeFileWatcher = new OperationModeFileWatcher(watcherService, licenseModePath, logger,
                () -> onChangeCounter.get().countDown());
        }

        @After
        public void shutdown() throws InterruptedException {
            terminate(threadPool);
        }
    }
}
watcherService.stop();

public void testInit() throws Exception {
    onChangeCounter.set(new CountDownLatch(2));
    writeMode("gold");
    assertThat(operationModeFileWatcher.getCurrentOperationMode(),
               equalTo(License.OperationMode.PLATINUM));
    operationModeFileWatcher.init();
    assertTrue(onChangeCounter.get().await(5, TimeUnit.SECONDS));
    assertThat(operationModeFileWatcher.getCurrentOperationMode(), equalTo(License.OperationMode.GOLD));
}

public void testUpdateModeFromFile() throws Exception {
    Files.delete(licenseModePath);
    operationModeFileWatcher.init();
    assertThat(operationModeFileWatcher.getCurrentOperationMode(),
               equalTo(License.OperationMode.PLATINUM));
    writeMode("gold");
    assertTrue(onChangeCounter.get().await(5, TimeUnit.SECONDS));
    assertThat(operationModeFileWatcher.getCurrentOperationMode(), equalTo(License.OperationMode.GOLD));
    onChangeCounter.set(new CountDownLatch(1));
    writeMode("basic");
    assertTrue(onChangeCounter.get().await(5, TimeUnit.SECONDS));
    assertThat(operationModeFileWatcher.getCurrentOperationMode(), equalTo(License.OperationMode.BASIC));
}

public void testDeleteModeFromFile() throws Exception {
    Files.delete(licenseModePath);
    operationModeFileWatcher.init();
    writeMode("gold");
    assertTrue(onChangeCounter.get().await(5, TimeUnit.SECONDS));
    assertThat(operationModeFileWatcher.getCurrentOperationMode(), equalTo(License.OperationMode.GOLD));
    onChangeCounter.set(new CountDownLatch(1));
    Files.delete(licenseModePath);
    assertTrue(onChangeCounter.get().await(5, TimeUnit.SECONDS));
    assertThat(operationModeFileWatcher.getCurrentOperationMode(), equalTo(License.OperationMode.PLATINUM));
}

public void testInvalidModeFromFile() throws Exception {
    writeMode("invalid");
    operationModeFileWatcher.init();
    assertThat(operationModeFileWatcher.getCurrentOperationMode(),
               equalTo(License.OperationMode.PLATINUM));
    operationModeFileWatcher.onFileChanged(licenseModePath);
    assertThat(operationModeFileWatcher.getCurrentOperationMode(),
               equalTo(License.OperationMode.PLATINUM));
    operationModeFileWatcher.onFileChanged(licenseModePath);
    assertThat(operationModeFileWatcher.getCurrentOperationMode(),
               equalTo(License.OperationMode.PLATINUM));
}
public void testLicenseModeFileIsDirectory() throws Exception {
    licenseModePath = createTempDir();
    operationModeFileWatcher.init();
    assertThat(operationModeFileWatcher.getCurrentOperationMode(),
        equalTo(License.OperationMode.PLATINUM));
    operationModeFileWatcher.onFileChanged(licenseModePath);
    assertThat(operationModeFileWatcher.getCurrentOperationMode(),
        equalTo(License.OperationMode.PLATINUM));
}

public void testLicenseModeFileCreatedAfterInit() throws Exception {
    Files.delete(licenseModePath);
    operationModeFileWatcher.init();
    assertThat(operationModeFileWatcher.getCurrentOperationMode(),
        equalTo(License.OperationMode.PLATINUM));
    onChangeCounter.set(new CountDownLatch(1));
    Path tempFile = createTempFile();
    writeMode("gold", tempFile);
    licenseModePath = tempFile;
    assertTrue(onChangeCounter.get().await(5, TimeUnit.SECONDS));
    assertThat(operationModeFileWatcher.getCurrentOperationMode(),
        equalTo(License.OperationMode.GOLD));
}

private void writeMode(String mode) throws IOException {
    writeMode(mode, licenseModePath);
}

static void writeMode(String mode, Path file) throws IOException {
    Files.write(file, mode.getBytes(StandardCharsets.UTF_8), StandardOpenOption.CREATE);
}

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/**
 * Tests {@link License.OperationMode} for correctness.
 * <p>
 * If you change the behavior of these tests, then it means that licensing changes across the products!
 */

public class LicenseOperationModeTests extends ESTestCase {
  public void testResolveTrial() {
    // assert 1.x BWC
    assertResolve(OperationMode.TRIAL, "nONE", "DEv", "deveLopment");
    // assert expected (2.x+) variant
    assertResolve(OperationMode.TRIAL, "tRiAl", "trial");
  }

  public void testResolveBasic() {
    // assert expected (2.x+) variant (note: no 1.x variant of BASIC)
    assertResolve(OperationMode.BASIC, "bAsIc", "basic");
  }

  public void testResolveStandard() {
    // assert expected (2.x+) variant (note: no 1.x variant of STANDARD)
    assertResolve(OperationMode.STANDARD, "StAnDARd", "standard");
  }

  public void testResolveGold() {
    // assert expected (2.x+) variant (note: no different 1.x variant of GOLD)
    assertResolve(OperationMode.GOLD, "SiLvEr", "gOLd", "silver", "gold");
  }

  public void testResolvePlatinum() {
    // assert 1.x BWC
    assertResolve(OperationMode.PLATINUM, "iNtErNaL");
    // assert expected (2.x+) variant
    assertResolve(OperationMode.PLATINUM, "PlAtINum", "platinum");
  }

  public void testResolveUnknown() {
    // 'enterprise' is a type that exists in cloud but should be rejected under normal operation
    // See https://github.com/elastic/x-plugins/issues/3371
    String[] types = { "unknown", "fake", "enterprise" };

    for (String type : types) {
      try {
        OperationMode.resolve(type);
        fail(String.format(Locale.ROOT, "%s should not be recognized as an operation mode", type));
      }
      catch (IllegalArgumentException e) {
        assertThat(e.getMessage(), equalTo("unknown type \" + type + \"\"));
      }
    }
  }
}
private static void assertResolve(OperationMode expected, String... types) {
    for (String type : types) {
        assertThat(OperationMode.resolve(type), equalTo(expected));
    }
}

package org.elasticsearch.license;

import org.elasticsearch.analysis.common.CommonAnalysisPlugin;
import org.elasticsearch.common.network.NetworkModule;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.plugins.Plugin;
import org.elasticsearch.test.ESIntegTestCase;
import org.elasticsearch.transport.Netty4Plugin;
import org.elasticsearch.xpack.core.LocalStateCompositeXPackPlugin;

import java.util.Arrays;
import java.util.Collection;
import static org.elasticsearch.test.ESIntegTestCase.Scope.TEST;

@ESIntegTestCase.ClusterScope(scope = TEST, numDataNodes = 0, numClientNodes = 0, maxNumDataNodes = 0, transportClientRatio = 0,
    autoMinMasterNodes = false)
public class LicenseServiceClusterNotRecoveredTests extends AbstractLicensesIntegrationTestCase {

    @Override
    protected Settings nodeSettings(int nodeOrdinal) {
        return nodeSettingsBuilder(nodeOrdinal).build();
    }

    private Settings.Builder nodeSettingsBuilder(int nodeOrdinal) {
        return Settings.builder()
            .put(super.nodeSettings(nodeOrdinal))
            .put("node.data", true)
            .put("resource.reload.interval.high", "500ms") // for license mode file watcher
            .put(NetworkModule.HTTP_ENABLED.getKey(), true);
    }
}
@Override
protected Collection<Class<? extends Plugin>> nodePlugins() {
    return Arrays.asList(LocalStateCompositeXPackPlugin.class, CommonAnalysisPlugin.class, Netty4Plugin.class);
}

@Override
protected Collection<Class<? extends Plugin>> transportClientPlugins() {
    return nodePlugins();
}

public void testClusterNotRecovered() throws Exception {
    logger.info("--> start one master out of two [recovery state]");
    internalCluster().startNode(nodeSettingsBuilder(0).put("discovery.zen.minimum_master_nodes", 2).put("node.master", true));
    logger.info("--> start second master out of two [recovered state]");
    internalCluster().startNode(nodeSettingsBuilder(1).put("discovery.zen.minimum_master_nodes", 2).put("node.master", true));
    assertLicenseActive(true);
}

package org.elasticsearch.license;
import org.elasticsearch.Version;
import org.elasticsearch.cluster.ClusterModule;
import org.elasticsearch.cluster.metadata.MetaData;
import org.elasticsearch.cluster.metadata.RepositoriesMetaData;
import org.elasticsearch.cluster.metadata.RepositoryMetaData;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.unit.TimeValue;
import org.elasticsearch.common.xcontent.NamedXContentRegistry;
import org.elasticsearch.common.xcontent.ToXContent;
import org.elasticsearch.common.xcontent.ToXContent.Params;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.common.xcontent.XContentFactory;
import org.elasticsearch.common.xcontent.XContentParser;
import org.elasticsearch.test.ESTestCase;
import java.util.Collections;
import java.util.UUID;
import java.util.stream.Collectors;
import java.util.stream.Stream;

import java.util.Collections;
import java.util.UUID;
import java.util.stream.Collectors;
import java.util.stream.Stream;
import static org.hamcrest.Matchers.equalTo;
import static org.hamcrest.Matchers.notNullValue;
import static org.hamcrest.Matchers.nullValue;

public class LicensesMetaDataSerializationTests extends ESTestCase {

    public void testXContentSerializationOneSignedLicense() throws Exception {
        License license = TestUtils.generateSignedLicense(TimeValue.timeValueHours(2));
        LicensesMetaData licensesMetaData = new LicensesMetaData(license, null);
        XContentBuilder builder = XContentFactory.jsonBuilder();
        builder.startObject();
        builder.startObject("licenses");
        licensesMetaData.toXContent(builder, ToXContent.EMPTY_PARAMS);
        builder.endObject();
        builder.endObject();
        LicensesMetaData licensesMetaDataFromXContent =
            getLicensesMetaDataFromXContent(createParser(builder));
        assertThat(licensesMetaDataFromXContent.getLicense(), equalTo(license));
        assertNull(licensesMetaDataFromXContent.getMostRecentTrialVersion());
    }

    public void testXContentSerializationOneSignedLicenseWithUsedTrial() throws Exception {
        License license = TestUtils.generateSignedLicense(TimeValue.timeValueHours(2));
        LicensesMetaData licensesMetaData = new LicensesMetaData(license, Version.CURRENT);
        XContentBuilder builder = XContentFactory.jsonBuilder();
        builder.startObject();
        builder.startObject("licenses");
        licensesMetaData.toXContent(builder, ToXContent.EMPTY_PARAMS);
        builder.endObject();
        builder.endObject();
        LicensesMetaData licensesMetaDataFromXContent =
            getLicensesMetaDataFromXContent(createParser(builder));
        assertThat(licensesMetaDataFromXContent.getLicense(), equalTo(license));
        assertEquals(licensesMetaDataFromXContent.getMostRecentTrialVersion(), Version.CURRENT);
    }

    public void testLicenseMetadataParsingDoesNotSwallowOtherMetaData() throws Exception {
        new Licensing(Settings.EMPTY); // makes sure LicensePlugin is registered in Custom MetaData
        License license = TestUtils.generateSignedLicense(TimeValue.timeValueHours(2));
        LicensesMetaData licensesMetaData = new LicensesMetaData(license, Version.CURRENT);
        RepositoryMetaData repositoryMetaData = new RepositoryMetaData("repo", "fs", Settings.EMPTY);
        RepositoriesMetaData repositoriesMetaData = new RepositoriesMetaData(repositoryMetaData);
        final MetaData.Builder metaDataBuilder = MetaData.builder();
        if (randomBoolean()) { // random order of insertion
            metaDataBuilder.putCustom(licensesMetaData.getWriteableName(), licensesMetaData);
            metaDataBuilder.putCustom(repositoriesMetaData.getWriteableName(), repositoriesMetaData);
        } else {
            metaDataBuilder.putCustom(repositoriesMetaData.getWriteableName(), repositoriesMetaData);
        }
    }
}
metaDataBuilder.putCustom(licensesMetaData.getWriteableName(), licensesMetaData);
}
// serialize metadata
XContentBuilder builder = XContentFactory.jsonBuilder();
Params params = new
ToXContent.MapParams(Collections.singletonMap(MetaData.CONTEXT_MODE_PARAM,
MetaData.CONTEXT_MODE_GATEWAY));
builder.startObject();
builder = metaDataBuilder.build().toXContent(builder, params);
builder.endObject();
// deserialize metadata again
MetaData metaData = MetaData.Builder.fromXContent(createParser(builder));
// check that custom metadata still present
assertThat(metaData.custom(licensesMetaData.getWriteableName()), notNullValue());
assertThat(metaData.custom(repositoriesMetaData.getWriteableName()), notNullValue());
}

public void testXContentSerializationOneTrial() throws Exception {
    long issueDate = System.currentTimeMillis();
    License.Builder specBuilder = License.builder()
        .uid(UUID.randomUUID().toString())
        .issuedTo("customer")
        .maxNodes(5)
        .issueDate(issueDate)
        .type(randomBoolean() ? "trial" : "basic")
        .expiryDate(issueDate + TimeValue.timeValueHours(2).getMillis());
    final License trialLicense = SelfGeneratedLicense.create(specBuilder);
    LicensesMetaData licensesMetaData = new LicensesMetaData(trialLicense, Version.CURRENT);
    XContentBuilder builder = XContentFactory.jsonBuilder();
    builder.startObject();
    builder.startObject("licenses");
    licensesMetaData.toXContent(builder, ToXContent.EMPTY_PARAMS);
    builder.endObject();
    builder.endObject();
    LicensesMetaData licensesMetaDataFromXContent =
    getLicensesMetaDataFromXContent(createParser(builder));
    assertThat(licensesMetaDataFromXContent.getLicense(), equalTo(trialLicense));
    assertEquals(licensesMetaDataFromXContent.getMostRecentTrialVersion(), Version.CURRENT); }

public void testLicenseTombstoneFromXContext() throws Exception {
    final XContentBuilder builder = XContentFactory.jsonBuilder();
    builder.startObject();
    builder.startObject("licenses");
    builder.nullField("license");
    builder.endObject();
    builder.endObject();
    LicensesMetaData metaDataFromXContent =
    getLicensesMetaDataFromXContent(createParser(builder));
    assertThrows(LicensesMetaData.class, () -> metaDataFromXContent.getLicense());
    }
assertThat(metaDataFromXContent.getLicense(), equalTo(LicensesMetaData.LICENSE_TOMBSTONE));
}

public void testLicenseTombstoneWithUsedTrialFromXContext() throws Exception {
    final XContentBuilder builder = XContentFactory.jsonBuilder();
    builder.startObject();
    builder.startObject("licenses");
    builder.nullField("license");
    builder.field("trial_license", Version.CURRENT.toString());
    builder.endObject();
    builder.endObject();
    LicensesMetaData metaDataFromXContent = getLicensesMetaDataFromXContent(createParser(builder));
    assertThat(metaDataFromXContent.getLicense(), equalTo(LicensesMetaData.LICENSE_TOMBSTONE));
    assertEquals(metaDataFromXContent.getMostRecentTrialVersion(), Version.CURRENT);
}

private static LicensesMetaData getLicensesMetaDataFromXContent(XContentParser parser) throws Exception {
    parser.nextToken(); // consume null
    parser.nextToken(); // consume "licenses"
    LicensesMetaData licensesMetaDataFromXContent = LicensesMetaData.fromXContent(parser);
    parser.nextToken(); // consume endObject
    assertThat(parser.nextToken(), nullValue());
    return licensesMetaDataFromXContent;
}

@Override
protected NamedXContentRegistry xContentRegistry() {
    return new NamedXContentRegistry(Stream.concat(
            new Licensing(Settings.EMPTY).getNamedXContent().stream(),
            ClusterModule.getNamedXWriteables().stream()
        ).collect(Collectors.toList()));
}

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 * you may not use this file except in compliance with the Elastic License.
 */
package org.elasticsearch.license;

import org.elasticsearch.cluster.ClusterName;
import org.elasticsearch.cluster.ClusterState;
import org.elasticsearch.cluster.ClusterStateUpdateTask;
import org.elasticsearch.cluster.metadata.MetaData;
import org.elasticsearch.common.settings.Settings;
import org.mockito.ArgumentCaptor;
import org.mockito.Mockito;
import java.util.UUID;
import static org.elasticsearch.license.TestUtils.dateMath;
import static org.mockito.Matchers.any;
import static org.mockito.Mockito.verify;
import static org.mockito.Mockito.when;

public class LicenseRegistrationTests extends AbstractLicenseServiceTestCase {

    public void testSelfGeneratedTrialLicense() throws Exception {
        XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
        setInitialState(null, licenseState, Settings.EMPTY, "trial");
        when(discoveryNodes.isLocalNodeElectedMaster()).thenReturn(true);
        licenseService.start();

        ClusterState state = ClusterState.builder(new ClusterName("a")).build();
        ArgumentCaptor<ClusterStateUpdateTask> stateUpdater =
        ArgumentCaptor.forClass(ClusterStateUpdateTask.class);
        verify(clusterService, Mockito.times(1)).submitStateUpdateTask(any(), stateUpdater.capture());
        ClusterState stateWithLicense = stateUpdater.getValue().execute(state);
        LicensesMetaData licenseMetaData = stateWithLicense.metaData().custom(LicensesMetaData.TYPE);
        assertNotNull(licenseMetaData);
        assertNotNull(licenseMetaData.getLicense());
        assertFalse(licenseMetaData.isEligibleForTrial());
        assertEquals("trial", licenseMetaData.getLicense().type());
        assertEquals(clock.millis() +
                LicenseService.NON_BASIC_SELF_GENERATED_LICENSE_DURATION.millis(),
                licenseMetaData.getLicense().expiryDate());
    }

    public void testSelfGeneratedBasicLicense() throws Exception {
        XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
        setInitialState(null, licenseState, Settings.EMPTY, "basic");
        when(discoveryNodes.isLocalNodeElectedMaster()).thenReturn(true);
        licenseService.start();

        ClusterState state = ClusterState.builder(new ClusterName("a")).build();
        ArgumentCaptor<ClusterStateUpdateTask> stateUpdater =
        ArgumentCaptor.forClass(ClusterStateUpdateTask.class);
        verify(clusterService, Mockito.times(1)).submitStateUpdateTask(any(), stateUpdater.capture());
        ClusterState stateWithLicense = stateUpdater.getValue().execute(state);
        LicensesMetaData licenseMetaData = stateWithLicense.metaData().custom(LicensesMetaData.TYPE);
        assertNotNull(licenseMetaData);
        assertNotNull(licenseMetaData.getLicense());
        assertTrue(licenseMetaData.isEligibleForTrial());
        assertEquals("basic", licenseMetaData.getLicense().type());
        assertEquals(LicenseService.BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS,
                licenseMetaData.getLicense().expiryDate());
    }
}
public void testNonSelfGeneratedBasicLicenseIsReplaced() throws Exception {
    long now = System.currentTimeMillis();
    String uid = UUID.randomUUID().toString();
    final License.Builder builder = License.builder()
            .uid(uid)
            .version(License.VERSION_CURRENT)
            .expiryDate(dateMath("now+2h", now))
            .startDate(now)
            .issueDate(now)
            .type("basic")
            .issuedTo("customer")
            .issuer("elasticsearch")
            .maxNodes(5);
    License license = TestUtils.generateSignedLicense(builder);
    XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
    setInitialState(license, licenseState, Settings.EMPTY);
    when(discoveryNodes.isLocalNodeElectedMaster()).thenReturn(true);
    licenseService.start();
    MetaData.Builder mdBuilder = MetaData.builder();
    mdBuilder.putCustom(LicensesMetaData.TYPE, new LicensesMetaData(license, null));
    ClusterState state = ClusterState.builder(new ClusterName("a")).metaData(mdBuilder.build()).build();
    ArgumentCaptor<ClusterStateUpdateTask> stateUpdater =
    ArgumentCaptor.forClass(ClusterStateUpdateTask.class);
    verify(clusterService, Mockito.times(1)).submitStateUpdateTask(any(), stateUpdater.capture());
    ClusterState stateWithLicense = stateUpdater.getValue().execute(state);
    LicensesMetaData licenseMetaData = stateWithLicense.metaData().custom(LicensesMetaData.TYPE);
    assertNotNull(licenseMetaData);
    assertNotNull(licenseMetaData.getLicense());
    assertTrue(licenseMetaData.isEligibleForTrial());
    assertEquals("basic", licenseMetaData.getLicense().type());
    assertEquals(LicenseService.BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS,
                    licenseMetaData.getLicense().expiryDate());
    assertEquals(uid, licenseMetaData.getLicense().uid());
}

public void testExpiredSelfGeneratedBasicLicenseIsExtended() throws Exception {
    long now = System.currentTimeMillis();
    String uid = UUID.randomUUID().toString();
    License.Builder builder = License.builder()
            .uid(uid)
            .issuedTo("name")
            .maxNodes(1000)
            .issueDate(dateMath("now-10h", now))
            .type("basic")
}
License license = SelfGeneratedLicense.create(builder);

XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
setInitialState(license, licenseState, Settings.EMPTY);
when(discoveryNodes.isLocalNodeElectedMaster()).thenReturn(true);
licenseService.start();

MetaData.Builder mdBuilder = MetaData.builder();
mdBuilder.putCustom(LicensesMetaData.TYPE, new LicensesMetaData(license, null));
ClusterState state = ClusterState.builder(new ClusterName("a")) .metaData(mdBuilder.build()).build();
ArgumentCaptor<ClusterStateUpdateTask> stateUpdater = ArgumentCaptor.forClass(ClusterStateUpdateTask.class);
verify(clusterService, Mockito.times(1)).submitStateUpdateTask(any(), stateUpdater.capture());
ClusterState stateWithLicense = stateUpdater.getValue().execute(state);
LicensesMetaData licenseMetaData = stateWithLicense.metaData().custom(LicensesMetaData.TYPE);
assertNotNull(licenseMetaData);
assertNotNull(licenseMetaData.getLicense());
assertTrue(licenseMetaData.isEligibleForTrial());
assertEquals("basic", licenseMetaData.getLicense().type());
assertEquals(LicenseService.BASIC_SELF_GENERATED_LICENSE_Expiration_MILLIS, licenseMetaData.getLicense().expiryDate());
assertEquals(uid, licenseMetaData.getLicense().uid());

package org.elasticsearch.license;

import org.elasticsearch.common.bytes.BytesReference;
import org.elasticsearch.common.unit.TimeValue;
import org.elasticsearch.common.xcontent.ToXContent;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.common.xcontent.XContentType;
import org.elasticsearch.test.ESTestCase;
import java.io.IOException;
import java.nio.ByteBuffer;
import java.util.Base64;
import java.util.Collections;
import java.util.UUID;
import static org.elasticsearch.license.CryptUtils.encrypt;
import static org.hamcrest.Matchers.equalTo;

import java.io.IOException;
import java.nio.ByteBuffer;
import java.util.Base64;
import java.util.Collections;
import java.util.UUID;
import static org.elasticsearch.license.CryptUtils.encrypt;
import static org.hamcrest.Matchers.equalTo;
public class SelfGeneratedLicenseTests extends ESTestCase {

    public void testBasic() throws Exception {
        long issueDate = System.currentTimeMillis();
        License.Builder specBuilder = License.builder()
                .uid(UUID.randomUUID().toString())
                .issuedTo("customer")
                .maxNodes(5)
                .type(randomBoolean() ? "trial" : "basic")
                .issueDate(issueDate)
                .expiryDate(issueDate + TimeValue.timeValueHours(2).getMillis());
        License trialLicense = SelfGeneratedLicense.create(specBuilder);
        assertThat(SelfGeneratedLicense.verify(trialLicense), equalTo(true));
    }

    public void testTampered() throws Exception {
        long issueDate = System.currentTimeMillis();
        License.Builder specBuilder = License.builder()
                .uid(UUID.randomUUID().toString())
                .issuedTo("customer")
                .type(randomBoolean() ? "trial" : "basic")
                .maxNodes(5)
                .issueDate(issueDate)
                .expiryDate(issueDate + TimeValue.timeValueHours(2).getMillis());
        License trialLicense = SelfGeneratedLicense.create(specBuilder);
        final String originalSignature = trialLicense.signature();
        License tamperedLicense = License.builder().fromLicenseSpec(trialLicense, originalSignature)
                .expiryDate(System.currentTimeMillis() + TimeValue.timeValueHours(5).getMillis())
                .build();
        assertThat(SelfGeneratedLicense.verify(trialLicense), equalTo(true));
        assertThat(SelfGeneratedLicense.verify(tamperedLicense), equalTo(false));
    }

    public void testFrom1x() throws Exception {
        long issueDate = System.currentTimeMillis();
        License.Builder specBuilder = License.builder()
                .uid(UUID.randomUUID().toString())
                .issuedTo("customer")
                .type("subscription")
                .subscriptionType("trial")
                .issuer("elasticsearch")
                .feature("")
                .version(License.VERSION_START)
                .maxNodes(5)
                .issueDate(issueDate)
                .expiryDate(issueDate + TimeValue.timeValueHours(2).getMillis());
    }
}
License pre20TrialLicense = specBuilder.build();
License license =
SelfGeneratedLicense.create(License.builder().fromPre20LicenseSpec(pre20TrialLicense).type("trial"));
assertThat(SelfGeneratedLicense.verify(license), equalTo(true));
}

class TestLicense {
    public void testTrialLicenseVerifyWithOlderVersion() throws Exception {
        long issueDate = System.currentTimeMillis();
        License.Builder specBuilder = License.builder()
            .issuedTo("customer")
            .maxNodes(5)
            .issueDate(issueDate)
            .expiryDate(issueDate + TimeValue.timeValueHours(2).getMillis())
            .feature(""")
            .subscriptionType("trial")
            .version(1);
        License trialLicenseV1 = createTrialLicense(specBuilder);
        assertThat(SelfGeneratedLicense.verify(trialLicenseV1), equalTo(true));
    }

    private static License createTrialLicense(License.Builder specBuilder) {
        License spec = specBuilder
            .type(randomBoolean() ? "trial" : "basic")
            .issuer("elasticsearch")
            .uid(UUID.randomUUID().toString())
            .build();
        final String signature;
        try {
            XContentBuilder contentBuilder = XContentFactory.contentBuilder(XContentType.JSON);
            spec.toXContent(contentBuilder, new
                ToXContent.MapParams(Collections.singletonMap(License.LICENSE_SPEC_VIEW_MODE, "true")));
            byte[] encrypt = encrypt(BytesReference.toBytes(BytesReference.bytes(contentBuilder)));
            byte[] bytes = new byte[4 + 4 + encrypt.length];
            ByteBuffer byteBuffer = ByteBuffer.wrap(bytes);
            byteBuffer.putInt(-spec.version())
                .putInt(encrypt.length)
                .put(encrypt);
            signature = Base64.getEncoder().encodeToString(bytes);
        } catch (IOException e) {
            throw new IllegalStateException(e);
        }
        return License.builder().fromLicenseSpec(spec, signature).build();
    }
}

/*
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 * or more contributor license agreements. Licensed under the Elastic License;
 * you may not use this file except in compliance with the Elastic License.
 */
package org.elasticsearch.license;

import org.elasticsearch.action.ActionFuture;
import org.elasticsearch.common.bytes.BytesArray;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.unit.TimeValue;
import org.elasticsearch.common.xcontent.XContentType;
import org.elasticsearch.node.Node;
import org.elasticsearch.plugins.Plugin;
import org.elasticsearch.test.ESSingleNodeTestCase;
import org.elasticsearch.xpack.core.LocalStateCompositeXPackPlugin;
import org.elasticsearch.xpack.core.XPackSettings;
import java.nio.charset.StandardCharsets;
import java.util.Collection;
import java.util.Collections;
import java.util.UUID;
import static org.elasticsearch.license.TestUtils.dateMath;
import static org.elasticsearch.license.TestUtils.generateExpiredNonBasicLicense;
import static org.elasticsearch.license.TestUtils.generateSignedLicense;
import static org.hamcrest.CoreMatchers.equalTo;
import static org.hamcrest.CoreMatchers.not;

public class LicensesTransportTests extends ESSingleNodeTestCase {

    @Override
    protected boolean resetNodeAfterTest() {
        return true;
    }

    @Override
    protected Collection<Class<? extends Plugin>> getPlugins() {
        return Collections.singletonList(LocalStateCompositeXPackPlugin.class);
    }

    @Override
    protected Settings nodeSettings() {
        Settings.Builder newSettings = Settings.builder();
        newSettings.put(super.nodeSettings());
        newSettings.put(XPackSettings.SECURITY_ENABLED.getKey(), false);
        //        newSettings.put(XPackSettings.MONITORING_ENABLED.getKey(), false);
        newSettings.put(XPackSettings.WATCHER_ENABLED.getKey(), false);
        newSettings.put(Node.NODE_DATA_SETTING.getKey(), true);
        return newSettings.build();
    }
}
public void testEmptyGetLicense() throws Exception {
    // basic license is added async, we should wait for it
    assertBusy(() -> {
        try {
            final ActionFuture<GetLicenseResponse> getLicenseFuture =
                new GetLicenseRequestBuilder(client().admin().cluster(), GetLicenseAction.INSTANCE).execute();
            final GetLicenseResponse getLicenseResponse = getLicenseFuture.get();
            assertNotNull(getLicenseResponse.license());
            assertThat(getLicenseResponse.license().operationMode(), equalTo(License.OperationMode.BASIC));
        } catch (Exception e) {
            throw new RuntimeException("unexpected exception", e);
        }
    });
}

public void testPutLicense() throws Exception {
    License signedLicense = generateSignedLicense(TimeValue.timeValueMinutes(2));

    // put license
    PutLicenseRequestBuilder putLicenseRequestBuilder =
        new PutLicenseRequestBuilder(client().admin().cluster(), PutLicenseAction.INSTANCE).setLicense(signedLicense)
            .setAcknowledge(true);
    PutLicenseResponse putLicenseResponse = putLicenseRequestBuilder.get();
    assertThat(putLicenseResponse.isAcknowledged(), equalTo(true));
    assertThat(putLicenseResponse.status(), equalTo(LicensesStatus.VALID));

    // get and check license
    GetLicenseResponse getLicenseResponse = new GetLicenseRequestBuilder(client().admin().cluster(),
        GetLicenseAction.INSTANCE).get();
    assertThat(getLicenseResponse.license(), equalTo(signedLicense));
}

public void testPutLicenseFromString() throws Exception {
    License signedLicense = generateSignedLicense(TimeValue.timeValueMinutes(2));
    String licenseString = TestUtils.dumpLicense(signedLicense);

    // put license source
    PutLicenseRequestBuilder putLicenseRequestBuilder =
        new PutLicenseRequestBuilder(client().admin().cluster(), PutLicenseAction.INSTANCE)
            .setLicense(new BytesArray(licenseString.getBytes(StandardCharsets.UTF_8)),
                XContentType.JSON).setAcknowledge(true);
    PutLicenseResponse putLicenseResponse = putLicenseRequestBuilder.get();
    assertThat(putLicenseResponse.isAcknowledged(), equalTo(true));
    assertThat(putLicenseResponse.status(), equalTo(LicensesStatus.VALID));
}
// get and check license
GetLicenseResponse getLicenseResponse = new GetLicenseRequestBuilder(client().admin().cluster(),
GetLicenseAction.INSTANCE).get();
assertThat(getLicenseResponse.license(), equalTo(signedLicense));
}

public void testPutInvalidLicense() throws Exception {
    License signedLicense = generateSignedLicense(TimeValue.timeValueMinutes(2));

    // modify content of signed license
    License tamperedLicense = License.builder()
        .fromLicenseSpec(signedLicense, signedLicense.signature())
        .expiryDate(signedLicense.expiryDate() + 10 * 24 * 60 * 60 * 1000L)
        .validate()
        .build();

    PutLicenseRequestBuilder builder = new PutLicenseRequestBuilder(client().admin().cluster(),
PutLicenseAction.INSTANCE);
    builder.setLicense(tamperedLicense);

    // try to put license (should be invalid)
    final PutLicenseResponse putLicenseResponse = builder.get();
    assertThat(putLicenseResponse.status(), equalTo(LicensesStatus.INVALID));

    // try to get invalid license
    GetLicenseResponse getLicenseResponse = new GetLicenseRequestBuilder(client().admin().cluster(),
GetLicenseAction.INSTANCE).get();
    assertThat(getLicenseResponse.license(), not(tamperedLicense));
}

public void testPutBasicLicenseIsInvalid() throws Exception {
    License signedLicense = generateSignedLicense("basic", License.VERSION_CURRENT, -1,
TimeValue.timeValueMinutes(2));

    PutLicenseRequestBuilder builder = new PutLicenseRequestBuilder(client().admin().cluster(),
PutLicenseAction.INSTANCE);
    builder.setLicense(signedLicense);

    // try to put license (should be invalid)
    IllegalArgumentException iae = expectThrows(IllegalArgumentException.class, builder::get);
    assertEquals(iae.getMessage(), "Registering basic licenses is not allowed.");

    // try to get invalid license
    GetLicenseResponse getLicenseResponse = new GetLicenseRequestBuilder(client().admin().cluster(),
GetLicenseAction.INSTANCE).get();
    assertThat(getLicenseResponse.license(), not(signedLicense));
}
public void testPutExpiredLicense() throws Exception {
    License expiredLicense = generateExpiredNonBasicLicense();
    PutLicenseRequestBuilder builder = new PutLicenseRequestBuilder(client().admin().cluster(),
            PutLicenseAction.INSTANCE);
    builder.setLicense(expiredLicense);
    PutLicenseResponse putLicenseResponse = builder.get();
    assertThat(putLicenseResponse.status(), equalTo(LicensesStatus.EXPIRED));
    // get license should not return the expired license
    GetLicenseResponse getLicenseResponse = new GetLicenseRequestBuilder(client().admin().cluster(),
            GetLicenseAction.INSTANCE).get();
    assertThat(getLicenseResponse.license(), not(expiredLicense));
}

public void testPutLicensesSimple() throws Exception {
    License goldSignedLicense = generateSignedLicense("gold", TimeValue.timeValueMinutes(5));
    PutLicenseRequestBuilder putLicenseRequestBuilder =
            new PutLicenseRequestBuilder(client().admin().cluster(),
            PutLicenseAction.INSTANCE).setLicense(goldSignedLicense)
                    .setAcknowledge(true);
    PutLicenseResponse putLicenseResponse = putLicenseRequestBuilder.get();
    assertThat(putLicenseResponse.status(), equalTo(LicensesStatus.VALID));
    GetLicenseResponse getLicenseResponse = new GetLicenseRequestBuilder(client().admin().cluster(),
            GetLicenseAction.INSTANCE).get();
    assertThat(getLicenseResponse.license(), equalTo(goldSignedLicense));
    License platinumSignedLicense = generateSignedLicense("platinum", TimeValue.timeValueMinutes(2));
    putLicenseRequestBuilder.setLicense(platinumSignedLicense);
    putLicenseResponse = putLicenseRequestBuilder.get();
    assertThat(putLicenseResponse.isAcknowledged(), equalTo(true));
    assertThat(putLicenseResponse.status(), equalTo(LicensesStatus.VALID));
    getLicenseResponse = new GetLicenseRequestBuilder(client().admin().cluster(),
            GetLicenseAction.INSTANCE).get();
    assertThat(getLicenseResponse.license(), equalTo(platinumSignedLicense));
}

public void testRemoveLicensesSimple() throws Exception {
    License goldLicense = generateSignedLicense("gold", TimeValue.timeValueMinutes(5));
    PutLicenseRequestBuilder putLicenseRequestBuilder =
            new PutLicenseRequestBuilder(client().admin().cluster(),
            PutLicenseAction.INSTANCE).setLicense(goldLicense)
                    .setAcknowledge(true);
    PutLicenseResponse putLicenseResponse = putLicenseRequestBuilder.get();
    assertThat(putLicenseResponse.isAcknowledged(), equalTo(true));
    assertThat(putLicenseResponse.status(), equalTo(LicensesStatus.VALID));
    GetLicenseResponse getLicenseResponse = new GetLicenseRequestBuilder(client().admin().cluster(),
            GetLicenseAction.INSTANCE).get();
    assertThat(getLicenseResponse.license(), equalTo(goldLicense));
    // delete all licenses
}
DeleteLicenseRequestBuilder deleteLicenseRequestBuilder =
    new DeleteLicenseRequestBuilder(client().admin().cluster(), DeleteLicenseAction.INSTANCE);
DeleteLicenseResponse deleteLicenseResponse = deleteLicenseRequestBuilder.get();
assertThat(deleteLicenseResponse.isAcknowledged(), equalTo(true));
// get licenses (expected no licenses)
getLicenseResponse = new GetLicenseRequestBuilder(client().admin().cluster(),
GetLicenseAction.INSTANCE).get();
assertNull(getLicenseResponse.license());
}

public void testLicenseIsRejectWhenStartDateLaterThanNow() throws Exception {
    long now = System.currentTimeMillis();
    final License.Builder builder = License.builder()
        .uid(UUID.randomUUID().toString())
        .version(License.VERSION_CURRENT)
        .expiryDate(dateMath("now+2h", now))
        .startDate(dateMath("now+1h", now))
        .issueDate(now)
        .type(License.OperationMode.TRIAL.toString())
        .issuedTo("customer")
        .issuer("elasticsearch")
        .maxNodes(5);
    License license = TestUtils.generateSignedLicense(builder);

    PutLicenseRequestBuilder putLicenseRequestBuilder =
        new PutLicenseRequestBuilder(client().admin().cluster(),
PutLicenseAction.INSTANCE).setLicense(license)
        .setAcknowledge(true);
    PutLicenseResponse putLicenseResponse = putLicenseRequestBuilder.get();
    assertThat(putLicenseResponse.isAcknowledged(), equalTo(true));
    assertThat(putLicenseResponse.status(), equalTo(LicensesStatus.INVALID));
}

public void testLicenseIsAcceptedWhenStartDateBeforeThanNow() throws Exception {
    long now = System.currentTimeMillis();
    final License.Builder builder = License.builder()
        .uid(UUID.randomUUID().toString())
        .version(License.VERSION_CURRENT)
        .expiryDate(dateMath("now+2h", now))
        .startDate(now)
        .issueDate(now)
        .type(License.OperationMode.TRIAL.toString())
        .issuedTo("customer")
        .issuer("elasticsearch")
        .maxNodes(5);
    License license = TestUtils.generateSignedLicense(builder);

    PutLicenseRequestBuilder putLicenseRequestBuilder =
        new PutLicenseRequestBuilder(client().admin().cluster(),
PutLicenseAction.INSTANCE).setLicense(license)
        .setAcknowledge(true);
    PutLicenseResponse putLicenseResponse = putLicenseRequestBuilder.get();
    assertThat(putLicenseResponse.isAcknowledged(), equalTo(true));
    assertThat(putLicenseResponse.status(), equalTo(LicensesStatus.INVALID));
}
new PutLicenseRequestBuilder(client().admin().cluster(), PutLicenseAction.INSTANCE).setLicense(license)
    .setAcknowledge(true);
PutLicenseResponse putLicenseResponse = putLicenseRequestBuilder.get();
assertThat(putLicenseResponse.isAcknowledged(), equalTo(true));
assertThat(putLicenseResponse.status(), equalTo(LicensesStatus.VALID));
*/

package org.elasticsearch.license;

import org.elasticsearch.Version;
import org.elasticsearch.action.support.PlainActionFuture;
import org.elasticsearch.cluster.ClusterStateUpdateTask;
import org.elasticsearch.cluster.node.DiscoveryNode;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.transport.TransportAddress;
import java.net.InetAddress;
import static java.util.Collections.emptyMap;
import static java.util.Collections.emptySet;
import static org.hamcrest.Matchers.containsString;
import static org.mockito.Matchers.any;
import static org.mockito.Mockito.times;
import static org.mockito.Mockito.verify;

public class LicenseTLSTests extends AbstractLicenseServiceTestCase {

    private InetAddress inetAddress;

    public void testApplyLicenseInDevMode() throws Exception {
        License newLicense = TestUtils.generateSignedLicense(randomFrom("gold", "platinum"),
            TimeValue.timeValueHours(24L));
        PutLicenseRequest request = new PutLicenseRequest();
        request.acknowledge(true);
        request.license(newLicense);
        Settings settings = Settings.builder().put("xpack.security.enabled", true).build();
        XPackLicenseState licenseState = new XPackLicenseState(settings);
        inetAddress = InetAddress.getLoopbackAddress();
        setInitialState(null, licenseState, settings);
        licenseService.start();
PlainActionFuture<PutLicenseResponse> responseFuture = new PlainActionFuture<>();
licenseService.registerLicense(request, responseFuture);
verify(clusterService).submitStateUpdateTask(any(String.class), any(ClusterStateUpdateTask.class));

inetAddress = TransportAddress.META_ADDRESS;
settings = Settings.builder()
    .put("xpack.security.enabled", true)
    .put("discovery.type", "single-node")
    .build();
licenseService.stop();
licenseState = new XPackLicenseState(settings);
setInitialState(null, licenseState, settings);
licenseService.start();
licenseService.registerLicense(request, responseFuture);
verify(clusterService, times(2)).submitStateUpdateTask(any(String.class), any(ClusterStateUpdateTask.class));}

public void testApplyLicenseInProdMode() throws Exception {
    final String licenseType = randomFrom("GOLD", "PLATINUM");
    License newLicense = TestUtils.generateSignedLicense(licenseType, TimeValue.timeValueHours(24L));
    PutLicenseRequest request = new PutLicenseRequest();
    request.acknowledge(true);
    request.license(newLicense);
    Settings settings = Settings.builder().put("xpack.security.enabled", true).build();
    XPackLicenseState licenseState = new XPackLicenseState(settings);
    inetAddress = TransportAddress.META_ADDRESS;
    setInitialState(null, licenseState, settings);
    licenseService.start();
    PlainActionFuture<PutLicenseResponse> responseFuture = new PlainActionFuture<>();
    IllegalStateException e = expectThrows(IllegalStateException.class, () ->
        licenseService.registerLicense(request, responseFuture));
    assertThat(e.getMessage(),
        containsString("Cannot install a \[" + licenseType + "] license unless TLS is configured or security is disabled");)
    settings = Settings.builder().put("xpack.security.enabled", false).build();
    licenseService.stop();
    licenseState = new XPackLicenseState(settings);
    setInitialState(null, licenseState, settings);
    licenseService.start();
    licenseService.registerLicense(request, responseFuture);
    verify(clusterService).submitStateUpdateTask(any(String.class), any(ClusterStateUpdateTask.class));
    settings = Settings.builder()
        .put("xpack.security.enabled", true)
        .put("xpack.security.transport.ssl.enabled", true)
        .build();
licenseService.stop();
licenseState = new XPackLicenseState(settings);
setInitialState(null, licenseState, settings);
licenseService.start();
licenseService.registerLicense(request, responseFuture);
verify(clusterService, times(2)).submitStateUpdateTask(any(String.class), any(ClusterStateUpdateTask.class));
}

@Override
protected DiscoveryNode getLocalNode() {
    return new DiscoveryNode("localnode", new TransportAddress(inetAddress, randomIntBetween(9300, 9399)),
        emptyMap(), emptySet(), Version.CURRENT);
}
*/

package org.elasticsearch.license;

import org.elasticsearch.common.bytes.BytesArray;
import org.elasticsearch.common.bytes.BytesReference;
import org.elasticsearch.common.xcontent.ToXContent;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.common.xcontent.XContentFactory;
import org.elasticsearch.common.xcontent.XContentHelper;
import org.elasticsearch.common.xcontent.XContentType;
import org.elasticsearch.test.ESTestCase;
import java.nio.charset.StandardCharsets;
import java.util.Collections;
import java.util.Map;
import java.util.UUID;
import static org.hamcrest.core.IsEqual.equalTo;
import static org.hamcrest.core.IsNull.notNullValue;
import static org.hamcrest.core.IsNull.nullValue;

public class LicenseSerializationTests extends ESTestCase {
    public void testSimpleIssueExpiryDate() throws Exception {
        long now = System.currentTimeMillis();
        String issueDate = TestUtils.dateMathString("now", now);
        String expiryDate = TestUtils.dateMathString("now+10d/d", now);
        String licenseSpecs = TestUtils.generateLicenseSpecString(new TestUtils.LicenseSpec(issueDate, expiryDate));
        License generatedLicense = License.fromSource(new BytesArray(licenseSpecs.getBytes(StandardCharsets.UTF_8)), XContentType.JSON);
        assertThat(generatedLicense.issueDate(), equalTo(DateUtils.beginningOfTheDay(issueDate)));
    }
}
assertThat(generatedLicense.expiryDate(), equalTo(DateUtils.endOfTheDay(expiryDate)));
}

public void testLicensesFields() throws Exception {
    TestUtils.LicenseSpec randomLicenseSpec =
    TestUtils.generateRandomLicenseSpec(License.VERSION_START);
    String licenseSpecsSource = TestUtils.generateLicenseSpecString(randomLicenseSpec);
    final License fromSource =
        License.fromSource(new BytesArray(licenseSpecsSource.getBytes(StandardCharsets.UTF_8)),
            XContentType.JSON);
    TestUtils.assertLicenseSpec(randomLicenseSpec, fromSource);
}

public void testLicenseRestView() throws Exception {
    long now = System.currentTimeMillis();
    String expiredLicenseExpiryDate = TestUtils.dateMathString("now-1d/d", now);
    String validLicenseIssueDate = TestUtils.dateMathString("now-10d/d", now);
    String invalidLicenseIssueDate = TestUtils.dateMathString("now+1d/d", now);
    String validLicenseExpiryDate = TestUtils.dateMathString("now+2d/d", now);    License license = TestUtils.generateLicenses(new TestUtils.LicenseSpec(validLicenseIssueDate,
        expiredLicenseExpiryDate));
    XContentBuilder builder = XContentFactory.contentBuilder(XContentType.JSON);
    license.toXContent(builder, new
        ToXContent.MapParams(Collections.singletonMap(License.REST_VIEW_MODE, "true")));
    builder.flush();
    Map<String, Object> map = XContentHelper.convertToMap(BytesReference.bytes(builder), false,
        builder.contentType()).v2();
    // should have an extra status field, human readable issue_data and expiry_date
    assertThat(map.get("status"), notNullValue());
    assertThat(map.get("issue_date"), notNullValue());
    assertThat(map.get("expiry_date"), notNullValue());
    assertThat(map.get("status"), equalTo("expired"));
    builder = XContentFactory.contentBuilder(XContentType.JSON);
    license.toXContent(builder, ToXContent.EMPTY_PARAMS);
    builder.flush();
    map = XContentHelper.convertToMap(BytesReference.bytes(builder), false, builder.contentType()).v2();
    assertThat(map.get("status"), nullValue());
    license = TestUtils.generateLicenses(new TestUtils.LicenseSpec(validLicenseIssueDate,
        validLicenseExpiryDate));
    builder = XContentFactory.contentBuilder(XContentType.JSON);
    license.toXContent(builder, new
        ToXContent.MapParams(Collections.singletonMap(License.REST_VIEW_MODE, "true")));
    builder.flush();
    map = XContentHelper.convertToMap(BytesReference.bytes(builder), false, builder.contentType()).v2();
    assertThat(map.get("status"), nullValue());
}

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// should have an extra status field, human readable issue_date and expiry_date
assertThat(map.get("status"), notNullValue());
assertThat(map.get("issue_date"), notNullValue());
assertThat(map.get("expiry_date"), notNullValue());
assertThat(map.get("status"), equalTo("active"));
builder = XContentFactory.contentBuilder(XContentType.JSON);
license.toXContent(builder, ToXContent.EMPTY_PARAMS);
builder.flush();
map = XContentHelper.convertToMap(BytesReference.bytes(builder), false, builder.contentType()).v2();
assertThat(map.get("status"), nullValue());

license = TestUtils.generateLicenses(new TestUtils.LicenseSpec(invalidLicenseIssueDate,
validLicenseExpiryDate));
builder = XContentFactory.contentBuilder(XContentType.JSON);
license.toXContent(builder, new
ToXContent.MapParams(Collections.singletonMap(License.REST_VIEW_MODE, "true")));
builder.flush();
map = XContentHelper.convertToMap(BytesReference.bytes(builder), false, builder.contentType()).v2();

// should have an extra status field, human readable issue_date and expiry_date
assertThat(map.get("status"), notNullValue());
assertThat(map.get("issue_date"), notNullValue());
assertThat(map.get("expiry_date"), notNullValue());
assertThat(map.get("status"), equalTo("invalid"));
builder = XContentFactory.contentBuilder(XContentType.JSON);
license.toXContent(builder, ToXContent.EMPTY_PARAMS);
builder.flush();
map = XContentHelper.convertToMap(BytesReference.bytes(builder), false, builder.contentType()).v2();
assertThat(map.get("status"), nullValue());
}

public void testLicenseRestViewNonExpiringBasic() throws Exception {
    long now = System.currentTimeMillis();

    License.Builder specBuilder = License.builder()
        .uid(UUID.randomUUID().toString())
        .issuedTo("test")
        .maxNodes(1000)
        .issueDate(now)
        .type("basic")
        .expiryDate(LicenseService.BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS);
    License license = SelfGeneratedLicense.create(specBuilder);
    XContentBuilder builder = XContentFactory.contentBuilder(XContentType.JSON);
    license.toXContent(builder, new
ToXContent.MapParams(Collections.singletonMap(License.REST_VIEW_MODE, "true")));
    builder.flush();
    Map<String, Object> map = XContentHelper.convertToMap(BytesReference.bytes(builder), false,
builder.contentType()).v2();

    LicenseBuilder specBuilder = License.builder()
        .uid(UUID.randomUUID().toString())
        .issuedTo("test")
        .maxNodes(1000)
        .issueDate(now)
        .type("basic")
        .expiryDate(LicenseService.BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS);
    License license = SelfGeneratedLicense.create(specBuilder);
    XContentBuilder builder = XContentFactory.contentBuilder(XContentType.JSON);
    license.toXContent(builder, new
ToXContent.MapParams(Collections.singletonMap(License.REST_VIEW_MODE, "true")));
    builder.flush();
    Map<String, Object> map = XContentHelper.convertToMap(BytesReference.bytes(builder), false,
builder.contentType()).v2();
// should have an extra status field, human readable issue_data and no expiry_date
assertThat(map.get("status"), notNullValue());
assertThat(map.get("type"), equalTo("basic"));
assertThat(map.get("issue_date"), notNullValue());
assertThat(map.get("expiry_date"), nullValue());
assertThat(map.get("expiry_date_in_millis"), nullValue());
assertThat(map.get("status"), equalTo("active"));
builder = XContentFactory.contentBuilder(XContentType.JSON);
license.toXContent(builder, ToXContent.EMPTY_PARAMS);
builder.flush();
map = XContentHelper.convertToMap(BytesReference.bytes(builder), false, builder.contentType()).v2();
assertThat(map.get("status"), nullValue());
}
} /*
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 */
package org.elasticsearch.license;

import org.elasticsearch.client.Response;
import org.elasticsearch.client.ResponseException;
import org.elasticsearch.client.RestClient;
import org.elasticsearch.common.io.Streams;
import org.elasticsearch.common.network.NetworkModule;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.unit.TimeValue;
import org.elasticsearch.plugins.Plugin;
import org.elasticsearch.test.ESIntegTestCase;
import org.elasticsearch.transport.Netty4Plugin;
import org.elasticsearch.xpack.core.LocalStateCompositeXPackPlugin;
import org.elasticsearch.xpack.core.XPackClientPlugin;

import java.io.InputStreamReader;
import java.nio.charset.StandardCharsets;
import java.util.Arrays;
import java.util.Collection;
import static org.elasticsearch.test.ESIntegTestCase.Scope.SUITE;

@ESIntegTestCase.ClusterScope(scope = SUITE)
public class StartBasicLicenseTests extends AbstractLicensesIntegrationTestCase {

    @Override
    protected Settings nodeSettings(int nodeOrdinal) {
        return Settings.builder();
    }
}
.put(super.nodeSettings(nodeOrdinal))
.put("node.data", true)
.put(LicenseService.SELF_GENERATED_LICENSE_TYPE.getKey(), "basic")
.put(NetworkModule.HTTP_ENABLED.getKey(), true).build();
}

@Override
protected Collection<Class<? extends Plugin>> nodePlugins() {
    return Arrays.asList(LocalStateCompositeXPackPlugin.class, Netty4Plugin.class);
}

@Override
protected Collection<Class<? extends Plugin>> transportClientPlugins() {
    return Arrays.asList(XPackClientPlugin.class, Netty4Plugin.class);
}

public void testStartBasicLicense() throws Exception {
    LicensingClient licensingClient = new LicensingClient(client());
    License license = TestUtils.generateSignedLicense("trial", License.VERSION_CURRENT, -1,
            TimeValue.timeValueHours(24));
    licensingClient.preparePutLicense(license).get();
    assertBusy(() -> {
        GetLicenseResponse getLicenseResponse = licensingClient.prepareGetLicense().get();
        assertEquals("trial", getLicenseResponse.license().type());
    });

    // Testing that you can start a basic license when you have no license
    if (randomBoolean()) {
        licensingClient.prepareDeleteLicense().get();
        assertNull(licensingClient.prepareGetLicense().get().license());
    }

    RestClient restClient = getRestClient();
    Response response = restClient.performRequest("GET", "/_xpack/license/basic_status");
    String body = Streams.copyToString(new InputStreamReader(response.getEntity().getContent(),
            StandardCharsets.UTF_8));
    assertEquals(200, response.getStatusLine().getStatusCode());
    assertEquals("{"eligible_to_start_basic":true}", body);

    Response response2 = restClient.performRequest("POST", "/_xpack/license/start_basic?acknowledge=true");
    String body2 = Streams.copyToString(new InputStreamReader(response2.getEntity().getContent(),
            StandardCharsets.UTF_8));
    assertEquals(200, response2.getStatusLine().getStatusCode());
    assertTrue(body2.contains(""acknowledged":true");
    assertTrue(body2.contains(""basic_was_started":true");

    assertBusy(() -> {
        ...
GetLicenseResponse currentLicense = licensingClient.prepareGetLicense().get();
assertEquals("basic", currentLicense.license().type());

long expirationMillis = licensingClient.prepareGetLicense().get().license().expiryDate();
assertEquals(LicenseService.BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS, expirationMillis);

Response response3 = restClient.performRequest("GET", "/_xpack/license");
String body3 = Streams.copyToString(new InputStreamReader(response3.getEntity().getContent(), StandardCharsets.UTF_8));
assertTrue(body3.contains("\"type\" : \"basic\"");
assertFalse(body3.contains("expiry_date"));
assertFalse(body3.contains("expiry_date_in_millis"));

Response response4 = restClient.performRequest("GET", "/_xpack/license/basic_status");
String body4 = Streams.copyToString(new InputStreamReader(response4.getEntity().getContent(), StandardCharsets.UTF_8));
assertEquals(200, response3.getStatusLine().getStatusCode());
assertEquals("\"eligible_to_start_basic\":false", body4);

ResponseException ex = expectThrows(ResponseException.class, () -> restClient.performRequest("POST", "/_xpack/license/start_basic");
Response response5 = ex.getResponse();
String body5 = Streams.copyToString(new InputStreamReader(response5.getEntity().getContent(), StandardCharsets.UTF_8));
assertEquals(403, response5.getStatusLine().getStatusCode());
assertTrue(body5.contains("\"basic_was_started\":false"));
assertTrue(body5.contains("\"acknowledged\":true"));
assertFalse(body5.contains("\"error_message\":\"Operation failed: Current license is basic.\""));
}

public void testUnacknowledgedStartBasicLicense() throws Exception {
    LicensingClient licensingClient = new LicensingClient(client());
    License license = TestUtils.generateSignedLicense("trial", License.VERSION_CURRENT, -1, TimeValue.timeValueHours(24));
    licensingClient.preparePutLicense(license).get();

    assertBusy(() -> {
        GetLicenseResponse getLicenseResponse = licensingClient.prepareGetLicense().get();
        assertEquals("trial", getLicenseResponse.license().type());
    });

    Response response2 = getRestClient().performRequest("POST", "/_xpack/license/start_basic");
    String body2 = Streams.copyToString(new InputStreamReader(response2.getEntity().getContent(), StandardCharsets.UTF_8));
    assertEquals(200, response2.getStatusLine().getStatusCode());
Open Source Used In Application Centric Infrastructure Service Engine (ACI-SE) 1.1

```java
assertTrue(body2.contains("\"acknowledged\":false\"));
assertTrue(body2.contains("\"basic_was_started\":false\"));
assertTrue(body2.contains("\"error_message\":\"Operation failed: Needs acknowledgement.\"\"));
assertTrue(body2.contains("\"message\":\"This license update requires acknowledgement. To acknowledge the license, " +
"please read the following messages and call /start_basic again, this time with the
\"acknowledge=true\"\"));
}
*/

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 */

package org.elasticsearch.license;

import org.elasticsearch.common.bytes.BytesReference;
import org.elasticsearch.common.io.stream.BytesStreamOutput;
import org.elasticsearch.common.io.stream.StreamInput;
import org.elasticsearch.common.xcontent.ToXContent;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.common.xcontent.XContentFactory;
import org.elasticsearch.common.xcontent.XContentHelper;
import org.elasticsearch.test.ESTestCase;
import java.io.IOException;
import java.util.HashMap;
import java.util.List;
import java.util.Locale;
import java.util.Map;
import static org.hamcrest.Matchers.equalTo;
import static org.hamcrest.Matchers.not;
import static org.hamcrest.Matchers.sameInstance;

public class PutLicenseResponseTests extends ESTestCase {
    @SuppressWarnings("unchecked")
    public void testSerialization() throws Exception {
        boolean acknowledged = randomBoolean();
        LicensesStatus status = randomFrom(LicensesStatus.VALID, LicensesStatus.INVALID,
                LicensesStatus.EXPIRED);
        Map<String, String[]> ackMessages = randomAckMessages();

        PutLicenseResponse response = new PutLicenseResponse(acknowledged, status, 
"", ackMessages);

        XContentBuilder contentBuilder = XContentFactory.jsonBuilder();
        response.toXContent(contentBuilder, ToXContent.EMPTY_PARAMS);
    }
}
```
Map<String, Object> map = XContentHelper.convertToMap(BytesReference.bytes(contentBuilder), false, contentBuilder.contentType()).v2();
assertThat(map.containsKey("acknowledged"), equalTo(true));
boolean actualAcknowledged = (boolean) map.get("acknowledged");
assertThat(actualAcknowledged, equalTo(acknowledged));

assertThat(map.containsKey("license_status"), equalTo(true));
String actualStatus = (String) map.get("license_status");
assertThat(actualStatus, equalTo(status.name().toLowerCase(Locale.ROOT)));

assertThat(map.containsKey("acknowledge"), equalTo(true));
Map<String, List<String>> actualAckMessages = (Map<String, List<String>>) map.get("acknowledge");
assertTrue(actualAckMessages.containsKey("message"));
actualAckMessages.remove("message");
assertThat(actualAckMessages.keySet(), equalTo(ackMessages.keySet()));
for (Map.Entry<String, List<String>> entry : actualAckMessages.entrySet()) {
    assertArrayEquals(entry.getValue().toArray(), ackMessages.get(entry.getKey()));
}
}

public void testStreamSerialization() throws IOException {
    boolean acknowledged = randomBoolean();
    LicensesStatus status = randomFrom(LicensesStatus.VALID, LicensesStatus.INVALID, LicensesStatus.EXPIRED);
    Map<String, String[]> ackMessages = randomAckMessages();

    // write the steam so that we can attempt to read it back
    BytesStreamOutput output = new BytesStreamOutput();
    PutLicenseResponse response = new PutLicenseResponse(acknowledged, status, 
"", ackMessages);
    // write it out
    response.writeTo(output);
    StreamInput input = output.bytes().streamInput();
    // read it back in
    response.readFrom(input);
    
    assertThat(response.isAcknowledged(), equalTo(acknowledged));
    assertThat(response.status(), equalTo(status));
    assertThat(response.acknowledgeMessages(), not(sameInstance(ackMessages)));
    assertThat(response.acknowledgeMessages().size(), equalTo(ackMessages.size()));

    for (String key : ackMessages.keySet()) {
        assertArrayEquals(ackMessages.get(key), response.acknowledgeMessages().get(key));
    }
}
private static Map<String, String[]> randomAckMessages() {
    int nFeatures = randomIntBetween(1, 5);

    Map<String, String[]> ackMessages = new HashMap<>();

    for (int i = 0; i < nFeatures; i++) {
        String feature = randomAlphaOfLengthBetween(9, 15);
        int nMessages = randomIntBetween(1, 5);
        String[] messages = new String[nMessages];
        for (int j = 0; j < nMessages; j++) {
            messages[j] = randomAlphaOfLengthBetween(10, 30);
        }
        ackMessages.put(feature, messages);
    }

    return ackMessages;
}

package org.elasticsearch.license;

import org.elasticsearch.Version;
import org.elasticsearch.cluster.ClusterName;
import org.elasticsearch.cluster.ClusterState;
import org.elasticsearch.cluster.block.ClusterBlocks;
import org.elasticsearch.cluster.metadata.MetaData;
import org.elasticsearch.cluster.node.DiscoveryNode;
import org.elasticsearch.cluster.node.DiscoveryNodes;
import org.elasticsearch.cluster.service.ClusterService;
import org.elasticsearch.common.component.Lifecycle;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.env.Environment;
import org.elasticsearch.test.ESTestCase;
import org.elasticsearch.watcher.ResourceWatcherService;
import org.elasticsearch.xpack.core.XPackPlugin;
import org.elasticsearch.xpack.core.watcher.watch.ClockMock;
import org.junit.After;
import org.junit.Before;
import java.nio.file.Path;
import java.util.Arrays;
import static java.util.Collections.emptySet;
import static java.util.Collections.singletonMap;
import static org.mockito.Mockito.mock;
import static org.mockito.Mockito.when;

public abstract class AbstractLicenseServiceTestCase extends ESTestCase {

    protected LicenseService licenseService;
    protected ClusterService clusterService;
    protected ResourceWatcherService resourceWatcherService;
    protected ClockMock clock;
    protected DiscoveryNodes discoveryNodes;
    protected Environment environment;
    protected String licenseType;

    @Before
    public void init() throws Exception {
        clusterService = mock(ClusterService.class);
        clock = ClockMock.frozen();
        discoveryNodes = mock(DiscoveryNodes.class);
        resourceWatcherService = mock(ResourceWatcherService.class);
        environment = mock(Environment.class);
    }

    protected void setInitialState(License license, XPackLicenseState licenseState, Settings settings) {
        setInitialState(license, licenseState, settings, randomBoolean() ? "trial" : "basic");
    }

    protected void setInitialState(License license, XPackLicenseState licenseState, Settings settings, String selfGeneratedType) {
        Path tempDir = createTempDir();
        when(environment.configFile()).thenReturn(tempDir);
        licenseType = selfGeneratedType;
        settings = Settings.builder().put(settings).put(LicenseService.SELF_GENERATED_LICENSE_TYPE.getKey(), licenseType).build();
        licenseService = new LicenseService(settings, clusterService, clock, environment, resourceWatcherService, licenseState);
        ClusterState state = mock(ClusterState.class);
        final ClusterBlocks noBlock = ClusterBlocks.builder().build();
        when(state.blocks()).thenReturn(noBlock);
        MetaData metaData = mock(MetaData.class);
        when(metaData.custom(LicensesMetaData.TYPE)).thenReturn(new LicensesMetaData(license, null));
        when(state.metaData()).thenReturn(metaData);
        final DiscoveryNode mockNode = getLocalNode();
        when(discoveryNodes.getMasterNode()).thenReturn(mockNode);
        when(discoveryNodes.spliterator()).thenReturn(Arrays.asList(mockNode).spliterator());
        when(discoveryNodes.isLocalNodeElectedMaster()).thenReturn(false);
        when(state.nodes()).thenReturn(discoveryNodes); // it is really ridiculous we have nodes() and getNodes()...
when(clusterService.state()).thenReturn(state);
when(clusterService.lifecycleState()).thenReturn(Lifecycle.State.STARTED);
when(clusterService.getClusterName()).thenReturn(new ClusterName("a"));
when(clusterService.localNode()).thenReturn(mockNode);
}

protected DiscoveryNode getLocalNode() {
    return new DiscoveryNode("b", buildNewFakeTransportAddress(),
        singletonMap(XPackPlugin.XPACK_INSTALLED_NODE_ATTR, "true"),
            emptySet(), Version.CURRENT);
}

@After
public void tearDown() throws Exception {
    super.tearDown();
    licenseService.stop();
}

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 */
package org.elasticsearch.xpack.core.security.authz.permission;

import org.elasticsearch.xpack.core.security.authz.privilege.Privilege;
import java.util.function.Predicate;

/**
 * A permissions that is based on a general privilege that contains patterns of users that this
 * user can execute a request as
 */
public final class RunAsPermission {

    public static final RunAsPermission NONE = new RunAsPermission(Privilege.NONE);

    private final Predicate<String> predicate;

    RunAsPermission(Privilege privilege) {
        this.predicate = privilege.predicate();
    }

    /**
     * Checks if this permission grants run as to the specified user
     */
    public boolean check(String username) {
        return predicate.test(username);
    }
import org.elasticsearch.cluster.metadata.MetaData;
import org.elasticsearch.common.Nullable;
import org.elasticsearch.common.bytes.BytesReference;
import org.elasticsearch.common.util.set.Sets;
import org.elasticsearch.xpack.core.security.authz.RoleDescriptor;
import org.elasticsearch.xpack.core.security.authz.accesscontrol.IndicesAccessControl;
import org.elasticsearch.xpack.core.security.authz.privilege.ClusterPrivilege;
import org.elasticsearch.xpack.core.security.authz.privilege.IndexPrivilege;
import java.util.ArrayList;
import java.util.Collections;
import java.util.List;
import java.util.Map;
import java.util.Objects;
import java.util.Set;

public final class Role {

    public static final Role EMPTY = Role.builder("__empty__).build();

    private final String[] names;
    private final ClusterPermission cluster;
    private final IndicesPermission indices;
    private final RunAsPermission runAs;

    Role(String[] names, ClusterPermission cluster, IndicesPermission indices, RunAsPermission runAs) {
        this.names = names;
        this.cluster = Objects.requireNonNull(cluster);
        this.indices = Objects.requireNonNull(indices);
        this.runAs = Objects.requireNonNull(runAs);
    }

    public String[] names() {
        return names;
    }

    public ClusterPermission cluster() {
        return cluster;
    }
}
public IndicesPermission indices() {
    return indices;
}

public RunAsPermission runAs() {
    return runAs;
}

public static Builder builder(String... names) {
    return new Builder(names, null);
}

public static Builder builder(String[] names, FieldPermissionsCache fieldPermissionsCache) {
    return new Builder(names, fieldPermissionsCache);
}

public static Builder builder(RoleDescriptor rd, FieldPermissionsCache fieldPermissionsCache) {
    return new Builder(rd, fieldPermissionsCache);
}

/**
 * Returns whether at least one group encapsulated by this indices permissions is authorized to execute the
 * specified action with the requested indices/aliases. At the same time if field and/or document level security
 * is configured for any group also the allowed fields and role queries are resolved.
 */
public IndicesAccessControl authorize(String action, Set<String> requestedIndicesOrAliases, MetaData
metaData,
    FieldPermissionsCache fieldPermissionsCache) {
    Map<String, IndicesAccessControl.IndexAccessControl> indexPermissions = indices.authorize(
        action, requestedIndicesOrAliases, metaData, fieldPermissionsCache
    );

    // At least one role / indices permission set need to match with all the requested indices/aliases:
    boolean granted = true;
    for (Map.Entry<String, IndicesAccessControl.IndexAccessControl> entry : indexPermissions.entrySet()) {
        if (!entry.getValue().isGranted()) {
            granted = false;
            break;
        }
    }
    return new IndicesAccessControl(granted, indexPermissions);
}

public static class Builder {

    private final String[] names;
}
private ClusterPermission cluster = ClusterPermission.NONE;
private RunAsPermission runAs = RunAsPermission.NONE;
private List<IndicesPermission.Group> groups = new ArrayList<>();
private FieldPermissionsCache fieldPermissionsCache = null;

private Builder(String[] names, FieldPermissionsCache fieldPermissionsCache) {
    this.names = names;
    this.fieldPermissionsCache = fieldPermissionsCache;
}

private Builder(RoleDescriptor rd, @Nullable FieldPermissionsCache fieldPermissionsCache) {
    this.names = new String[rd.getName().length];
    this.fieldPermissionsCache = fieldPermissionsCache;
    if (rd.getClusterPrivileges().length == 0) {
        cluster = ClusterPermission.NONE;
    } else {
        this.cluster(ClusterPrivilege.get(Sets.newHashSet(rd.getClusterPrivileges())));
    }
    groups.addAll(convertFromIndicesPrivileges(rd.getIndicesPrivileges(), fieldPermissionsCache));
}

public Builder cluster(ClusterPrivilege privilege) {
    cluster = new ClusterPermission(privilege);
    return this;
}

public Builder runAs(Privilege privilege) {
    runAs = new RunAsPermission(privilege);
    return this;
}

public Builder add(IndexPrivilege privilege, String... indices) {
    groups.add(new IndicesPermission.Group(privilege, FieldPermissions.DEFAULT, null, indices));
    return this;
}

public Builder add(FieldPermissions fieldPermissions, Set<BytesReference> query, IndexPrivilege privilege,
    String... indices) {
    groups.add(new IndicesPermission.Group(privilege, fieldPermissions, query, indices));
    return this;
}

public Role build() {
    IndicesPermission indices = groups.isEmpty() ? IndicesPermission.NONE :
new IndicesPermission(groups.toArray(new IndicesPermission.Group[groups.size()]));
return new Role(names, cluster, indices, runAs);
}

static List<IndicesPermission.Group> convertFromIndicesPrivileges(RoleDescriptor.IndicesPrivileges[]
indicesPrivileges,
          @Nullable FieldPermissionsCache fieldPermissionsCache) {
    List<IndicesPermission.Group> list = new ArrayList<>(indicesPrivileges.length);
    for (RoleDescriptor.IndicesPrivileges privilege : indicesPrivileges) {
      final FieldPermissions fieldPermissions;
      if (fieldPermissionsCache != null) {
        fieldPermissions = fieldPermissionsCache.getFieldPermissions(privilege.getGrantedFields(),
       privilege.getDeniedFields());
      } else {
        fieldPermissions = new FieldPermissions(
          new FieldPermissionsDefinition(privilege.getGrantedFields(), privilege.getDeniedFields()));
      }
      final Set<BytesReference> query = privilege.getQuery() == null ? null : Collections.singleton(privilege.getQuery());
      list.add(new IndicesPermission.Group(IndexPrivilege.get(Sets.newHashSet(privilege.getPrivileges())),
        fieldPermissions,
        query,
        privilege.getIndices()));
    }
    return list;
  }

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 */
package org.elasticsearch.xpack.core.security.authz.permission;

import org.apache.lucene.util.automaton.Automaton;
import org.elasticsearch.ElasticsearchException;
import org.elasticsearch.common.cache.Cache;
import org.elasticsearch.common.cache.CacheBuilder;
import org.elasticsearch.common.settings.Setting;
import org.elasticsearch.common.settings.Setting.Property;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.xpack.core.security.authz.permission.FieldPermissionsDefinition.FieldGrantExcludeGroup;
import org.elasticsearch.xpack.core.security.support.Automatons;
import java.util.Collection;
import java.util.List;

import java.util.Collection;
import java.util.List;
import java.util.Optional;
import java.util.Set;
import java.util.concurrent.ExecutionException;
import java.util.function.Predicate;
import java.util.stream.Collectors;
import static org.elasticsearch.xpack.core.security.SecurityField.setting;

/**
 * A service for managing the caching of @link FieldPermissions} as these may often need to be combined or
 * created and internally they
 * use an @link org.apache.lucene.util.automaton.Automaton}, which can be costly to create once you account for
 * minimization
 */
public final class FieldPermissionsCache {

    public static final Setting<Long> CACHE_SIZE_SETTING = Setting.longSetting(
            setting("authz.store.roles.field_permissions.cache.max_size_in_bytes"), 100 * 1024 * 1024, -1L,
            Property.NodeScope);

    private final Cache<FieldPermissionsDefinition, FieldPermissions> cache;

    public FieldPermissionsCache(Settings settings) {
        this.cache = CacheBuilder.<FieldPermissionsDefinition, FieldPermissions>builder()
                .setMaximumWeight(CACHE_SIZE_SETTING.get(settings))
                .weigher((key, fieldPermissions) -> fieldPermissions.ramBytesUsed())
                .build();
    }

    /**
     * Gets a @link FieldPermissions} instance that corresponds to the granted and denied parameters. The instance
     * may come from the cache
     * or if it gets created, the instance will be cached
     */
    FieldPermissions getFieldPermissions(String[] granted, String[] denied) {
        return getFieldPermissions(new FieldPermissionsDefinition(granted, denied));
    }

    /**
     * Gets a @link FieldPermissions} instance that corresponds to the granted and denied parameters. The instance
     * may come from the cache
     * or if it gets created, the instance will be cached
     */
    public FieldPermissions getFieldPermissions(FieldPermissionsDefinition fieldPermissionsDefinition) {
        try {
            return cache.computeIfAbsent(fieldPermissionsDefinition,
                    (key) -> new FieldPermissions(key, FieldPermissions.initializePermittedFieldsAutomaton(key)));
        } catch (ExecutionException e) {
            throw new ElasticsearchException("unable to compute field permissions", e);
        }
    }
}
/**
* Returns a field permissions object that corresponds to the merging of the given field permissions and caches the
* instance if one was
* not found in the cache.
* /
FieldPermissions getFieldPermissions(Collection<FieldPermissions> fieldPermissionsCollection) {
  Optional<FieldPermissions> allowAllFieldPermissions = fieldPermissionsCollection.stream()
    .filter(((Predicate<FieldPermissions>) (FieldPermissions::hasFieldLevelSecurity)).negate())
    .findFirst();
  return allowAllFieldPermissions.orElseGet(() -> {
    final Set<FieldGrantExcludeGroup> fieldGrantExcludeGroups = fieldPermissionsCollection.stream()
      .flatMap(fieldPermission ->
      fieldPermission.getFieldPermissionsDefinition().getFieldGrantExcludeGroups().stream())
      .collect(Collectors.toSet());
    final FieldPermissionsDefinition combined = new FieldPermissionsDefinition(fieldGrantExcludeGroups);
    try {
      return cache.computeIfAbsent(combined, (key) -> {
        List<Automaton> automatonList = fieldPermissionsCollection.stream()
          .map(FieldPermissions::getIncludeAutomaton)
          .collect(Collectors.toList());
        return new FieldPermissions(key, Automatons.unionAndMinimize(automatonList));
      });
    } catch (ExecutionException e) {
      throw new ElasticsearchException("unable to compute field permissions", e);
    }
  });
}

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*/
package org.elasticsearch.xpack.core.security.authz.permission;

import org.apache.lucene.util.automaton.Automaton;
import org.apache.lucene.util.automaton.TooComplexToDeterminizeException;
import org.elasticsearch.ElasticsearchSecurityException;
import org.elasticsearch.cluster.metadata.AliasOrIndex;
import org.elasticsearch.cluster.metadata.MetaData;
import org.elasticsearch.common.Nullable;
import org.elasticsearch.common.Strings;
import org.elasticsearch.common.bytes.BytesReference;
import org.elasticsearch.common.logging.Loggers;
import org.elasticsearch.xpack.core.security.authz.accesscontrol.IndicesAccessControl;
import org.elasticsearch.xpack.core.security.authz.privilege.IndexPrivilege;
import org.elasticsearch.xpack.core.security.support.Automatons;

import java.util.ArrayList;
import java.util.Arrays;
import java.util.HashMap;
import java.util.HashSet;
import java.util.Iterator;
import java.util.List;
import java.util.Map;
import java.util.Objects;
import java.util.Set;
import java.util.SortedMap;
import java.util.concurrent.ConcurrentHashMap;
import java.util.function.Function;
import java.util.function.Predicate;
import static java.util.Collections.unmodifiableMap;
import static java.util.Collections.unmodifiableSet;

/**
 * A permission that is based on privileges for index related actions executed
 * on specific indices
 */
public final class IndicesPermission implements Iterable<IndicesPermission.Group> {

    public static final IndicesPermission NONE = new IndicesPermission();

    private final Function<String, Predicate<String>> loadingFunction;
    private final ConcurrentHashMap<String, Predicate<String>> allowedIndicesMatchersForAction = new
    ConcurrentHashMap<>();
    private final Group[] groups;

    public IndicesPermission(Group... groups) {
        this.groups = groups;
        loadingFunction = (action) -> {
            List<String> indices = new ArrayList<>();
            for (Group group : groups) {
                if (group.actionMatcher.test(action)) {
                    indices.addAll(Arrays.asList(group.indices));
                }
            }
            return indexMatcher(indices);
        };
    }
    
    public IndicesPermission() {
        this.groups = new Group[0];
        loadingFunction = (action) -> {
            List<String> indices = new ArrayList<>();
            for (Group group : groups) {
                if (group.actionMatcher.test(action)) {
                    indices.addAll(Arrays.asList(group.indices));
                }
            }
            return indexMatcher(indices);
        };
    }

    public static final IndicesPermission NONE = new IndicesPermission();

    private final Function<String, Predicate<String>> loadingFunction;
    private final ConcurrentHashMap<String, Predicate<String>> allowedIndicesMatchersForAction = new
    ConcurrentHashMap<>();
    private final Group[] groups;

    public IndicesPermission(Group... groups) {
        this.groups = groups;
        loadingFunction = (action) -> {
            List<String> indices = new ArrayList<>();
            for (Group group : groups) {
                if (group.actionMatcher.test(action)) {
                    indices.addAll(Arrays.asList(group.indices));
                }
            }
            return indexMatcher(indices);
        };
    }
    
    public IndicesPermission() {
        this.groups = new Group[0];
        loadingFunction = (action) -> {
            List<String> indices = new ArrayList<>();
            for (Group group : groups) {
                if (group.actionMatcher.test(action)) {
                    indices.addAll(Arrays.asList(group.indices));
                }
            }
            return indexMatcher(indices);
        };
    }

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                }
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            }
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        };
    }
    
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        loadingFunction = (action) -> {
            List<String> indices = new ArrayList<>();
            for (Group group : groups) {
                if (group.actionMatcher.test(action)) {
                    indices.addAll(Arrays.asList(group.indices));
                }
            }
            return indexMatcher(indices);
        };
    }
static Predicate<String> indexMatcher(List<String> indices) {
    try {
        return Automatons.predicate(indices);
    } catch (TooComplexToDeterminizeException e) {
        Loggers.getLogger(IndicesPermission.class).debug("Index pattern automaton [{ }] is too complex", indices);
        String description = Strings.collectionToCommaDelimitedString(indices);
        if (description.length() > 80) {
            description = Strings.cleanTruncate(description, 80) + "...";
        }
        throw new ElasticsearchSecurityException("The set of permitted index patterns [{ }] is too complex to evaluate", e, description);
    }
}

@Override
public Iterator<Group> iterator() {
    return Arrays.asList(groups).iterator();
}

public Group[] groups() {
    return groups;
}

/**
 * @return A predicate that will match all the indices that this permission has the privilege for executing the given action on.
 */
public Predicate<String> allowedIndicesMatcher(String action) {
    return allowedIndicesMatchersForAction.computeIfAbsent(action, loadingFunction);
}

/**
 * Checks if the permission matches the provided action, without looking at indices.
 * To be used in very specific cases where indices actions need to be authorized regardless of their indices.
 * The usecase for this is composite actions that are initially only authorized based on the action name (indices are not checked on the coordinating node), and properly authorized later at the shard level checking their indices as well.
 */
public boolean check(String action) {
    for (Group group : groups) {
        if (group.check(action)) {
            return true;
        }
    }
    return false;
}
public Automaton allowedActionsMatcher(String index) {
    List<Automaton> automatonList = new ArrayList<>();
    for (Group group : groups) {
        if (group.indexNameMatcher.test(index)) {
            automatonList.add(group.privilege.getAutomaton());
        }
    }
    return automatonList.isEmpty() ? Automatons.EMPTY : Automatons.unionAndMinimize(automatonList);
}

/**
 * Authorizes the provided action against the provided indices, given the current cluster metadata
 */
public Map<String, IndicesAccessControl.IndexAccessControl> authorize(String action, Set<String> requestedIndicesOrAliases, MetaData metaData, FieldPermissionsCache fieldPermissionsCache) {
    // now... every index that is associated with the request, must be granted
    // by at least one indices permission group

    SortedMap<String, AliasOrIndex> allAliasesAndIndices = metaData.getAliasAndIndexLookup();
    Map<String, Set<FieldPermissions>> fieldPermissionsByIndex = new HashMap<>();
    Map<String, DocumentLevelPermissions> roleQueriesByIndex = new HashMap<>();
    Map<String, Boolean> grantedBuilder = new HashMap<>();

    for (String indexOrAlias : requestedIndicesOrAliases) {
        boolean granted = false;
        Set<String> concreteIndices = new HashSet<>();
        AliasOrIndex aliasOrIndex = allAliasesAndIndices.get(indexOrAlias);
        if (aliasOrIndex != null) {
            for (IndexMetaData indexMetaData : aliasOrIndex.getIndices()) {
                concreteIndices.add(indexMetaData.getIndex().getName());
            }
        }

        for (Group group : groups) {
            if (group.check(action, indexOrAlias)) {
                granted = true;
                for (String index : concreteIndices) {
                    Set<FieldPermissions> fieldPermissions = fieldPermissionsByIndex.computeIfAbsent(index, (k) ->
                        new HashSet<>());
                    fieldPermissionsByIndex.put(indexOrAlias, fieldPermissions);
                    fieldPermissions.add(group.getFieldPermissions());
                    DocumentLevelPermissions permissions =
                        roleQueriesByIndex.computeIfAbsent(index, (k) -> new DocumentLevelPermissions());
                    roleQueriesByIndex.putIfAbsent(indexOrAlias, permissions);
                    if (group.hasQuery()) {
                        permissions.addAll(group.getQuery());
                    }
                }
            }
        }
    }
    return grantedBuilder;
}
Map<String, IndicesAccessControl.IndexAccessControl> indexPermissions = new HashMap<>();
for (Map.Entry<String, Boolean> entry : grantedBuilder.entrySet()) {
    String index = entry.getKey();
    DocumentLevelPermissions permissions = roleQueriesByIndex.get(index);
    final Set<BytesReference> roleQueries;
    if (permissions != null && permissions.isAllowAll() == false) {
        roleQueries = unmodifiableSet(permissions.queries);
    } else {
        roleQueries = null;
    }
    final FieldPermissions fieldPermissions;
    final Set<FieldPermissions> indexFieldPermissions = fieldPermissionsByIndex.get(index);
    if (indexFieldPermissions != null && indexFieldPermissions.isEmpty() == false) {
        fieldPermissions = indexFieldPermissions.size() == 1 ? indexFieldPermissions.iterator().next() :
            fieldPermissionsCache.getFieldPermissions(indexFieldPermissions);
    } else {
        fieldPermissions = FieldPermissions.DEFAULT;
    }
    indexPermissions.put(index, new IndicesAccessControl.IndexAccessControl(entry.getValue(),
            fieldPermissions, roleQueries));
}
return unmodifiableMap(indexPermissions);
}

public static class Group {

    private final IndexPrivilege privilege;
    private final Predicate<String> actionMatcher;
}
private final String[] indices;
private final Predicate<String> indexNameMatcher;

public FieldPermissions getFieldPermissions() {
    return fieldPermissions;
}

private final FieldPermissions fieldPermissions;
private final Set<BytesReference> query;

public Group(IndexPrivilege privilege, FieldPermissions fieldPermissions, @Nullable Set<BytesReference> query, String... indices) {
    assert indices.length != 0;
    this.privilege = privilege;
    this.actionMatcher = privilege.predicate();
    this.indices = indices;
    this.indexNameMatcher = indexMatcher(Arrays.asList(indices));
    this.fieldPermissions = Objects.requireNonNull(fieldPermissions);
    this.query = query;
}

public IndexPrivilege privilege() {
    return privilege;
}

public String[] indices() {
    return indices;
}

@Nullable
public Set<BytesReference> getQuery() {
    return query;
}

private boolean check(String action) {
    return actionMatcher.test(action);
}

private boolean check(String action, String index) {
    assert index != null;
    return check(action) && indexNameMatcher.test(index);
}

boolean hasQuery() {
    return query != null;
}

private static class DocumentLevelPermissions {

    private Set<BytesReference> queries = null;
    private boolean allowAll = false;

    private void addAll(Set<BytesReference> query) {
        if (allowAll == false) {
            if (queries == null) {
                queries = new HashSet<>();
            }
            queries.addAll(query);
        }
    }

    private boolean isAllowAll() {
        return allowAll;
    }

    private void setAllowAll(boolean allowAll) {
        this.allowAll = allowAll;
    }
}

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 * or more contributor license agreements. Licensed under the Elastic License;
 * you may not use this file except in compliance with the Elastic License.
 */
package org.elasticsearch.xpack.core.security.authz.permission;

import org.apache.lucene.index.DirectoryReader;
import org.apache.lucene.util.Accountable;
import org.apache.lucene.util.RamUsageEstimator;
import org.apache.lucene.util.automaton.Automata;
import org.apache.lucene.util.automaton.Automaton;
import org.apache.lucene.util.automaton.CharacterRunAutomaton;
import org.apache.lucene.util.automaton.MinimizationOperations;
import org.elasticsearch.ElasticsearchSecurityException;
import org.elasticsearch.common.Strings;
import org.elasticsearch.common.regex.Regex;
import org.elasticsearch.index.mapper.AllFieldMapper;
import org.elasticsearch.xpack.core.security.authz.accesscontrol.FieldSubsetReader;
import org.elasticsearch.xpack.core.security.authz.permission.FieldPermissionsDefinition.FieldGrantExcludeGroup;
import org.elasticsearch.xpack.core.security.support.Automatons;
import java.io.IOException;
import java.util.Arrays;

import java.io.IOException;
import java.util.Arrays;
import java.util.HashMap;
import java.util.HashSet;
import java.util.List;
import java.util.Set;
import java.util.stream.Collectors;
import static org.apache.lucene.util.automaton.Operations.subsetOf;

/**
 * Stores patterns to fields which access is granted or denied to and maintains an automaton that can be used to check if permission is
 * allowed for a specific field.
 * Field permissions are configured via a list of strings that are patterns a field has to match. Two lists determine whether or
 * not a field is granted access to:
 * 1. It has to match the patterns in grantedFieldsArray
 * 2. it must not match the patterns in deniedFieldsArray
 */
public final class FieldPermissions implements Accountable {

    public static final FieldPermissions DEFAULT = new FieldPermissions();

    private static final long BASE_FIELD_PERM_DEF_BYTES = RamUsageEstimator.shallowSizeOf(new FieldPermissionsDefinition(null, null));
    private static final long BASE_FIELD_GROUP_BYTES = RamUsageEstimator.shallowSizeOf(new FieldGrantExcludeGroup(null, null));
    private static final long BASE_HASHSET_SIZE = RamUsageEstimator.shallowSizeEstimatorInstance(HashSet.class);
    private static final long BASE_HASHSET_ENTRY_SIZE;
    static {
        HashMap<String, Object> map = new HashMap<>();
        map.put(FieldPermissions.class.getName(), new Object());
        long mapEntryShallowSize = RamUsageEstimator.shallowSizeOf(map.entrySet().iterator().next());
        // assume a load factor of 50%
        // for each entry, we need two object refs, one for the entry itself
        // and one for the free space that is due to the fact hash tables can
        // not be fully loaded
        BASE_HASHSET_ENTRY_SIZE = mapEntryShallowSize + 2 * RamUsageEstimator.NUM_BYTES_OBJECT_REF;
    }

    private final FieldPermissionsDefinition fieldPermissionsDefinition;
    // an automaton that represents a union of one more sets of permitted and denied fields
    private final CharacterRunAutomaton permittedFieldsAutomaton;
    private final boolean permittedFieldsAutomatonIsTotal;
    private final Automaton originalAutomaton;
    private final long ramBytesUsed;

    private final long BASE_HASHSET_SIZE = RamUsageEstimator.shallowSizeOfInstance(HashSet.class);
    private final long BASE_HASHSET_ENTRY_SIZE;
    static {
        HashMap<String, Object> map = new HashMap<>();
        map.put(FieldPermissions.class.getName(), new Object());
        long mapEntryShallowSize = RamUsageEstimator.shallowSizeOf(map.entrySet().iterator().next());
        // assume a load factor of 50%
        // for each entry, we need two object refs, one for the entry itself
        // and one for the free space that is due to the fact hash tables can
        // not be fully loaded
        BASE_HASHSET_ENTRY_SIZE = mapEntryShallowSize + 2 * RamUsageEstimator.NUM_BYTES_OBJECT_REF;
    }

    private final FieldPermissionsDefinition fieldPermissionsDefinition;
    // an automaton that represents a union of one more sets of permitted and denied fields
    private final CharacterRunAutomaton permittedFieldsAutomaton;
    private final boolean permittedFieldsAutomatonIsTotal;
    private final Automaton originalAutomaton;
    private final long ramBytesUsed;
/** Constructor that does not enable field-level security: all fields are accepted. */
public FieldPermissions() {
    this(new FieldPermissionsDefinition(null, null), Automatons.MATCH_ALL);
}

/** Constructor that enables field-level security based on include/exclude rules. Exclude rules
 * have precedence over include rules. */
public FieldPermissions(FieldPermissionsDefinition fieldPermissionsDefinition) {
    this(fieldPermissionsDefinition, initializePermittedFieldsAutomaton(fieldPermissionsDefinition));
}

/** Constructor that enables field-level security based on include/exclude rules. Exclude rules
 * have precedence over include rules. */
FieldPermissions(FieldPermissionsDefinition fieldPermissionsDefinition, Automaton permittedFieldsAutomaton) {
    if (permittedFieldsAutomaton.isDeterministic() == false && permittedFieldsAutomaton.getNumStates() > 1) {
        // we only accept deterministic automata so that the CharacterRunAutomaton constructor
        // directly wraps the provided automaton
        throw new IllegalArgumentException("Only accepts deterministic automata");
    }
    this.fieldPermissionsDefinition = fieldPermissionsDefinition;
    this.originalAutomaton = permittedFieldsAutomaton;
    this.permittedFieldsAutomaton = new CharacterRunAutomaton(permittedFieldsAutomaton);
    // we cache the result of isTotal since this might be a costly operation
    this.permittedFieldsAutomatonIsTotal = Operations.isTotal(permittedFieldsAutomaton);
    long ramBytesUsed = BASE_FIELD_PERM_DEF_BYTES;
    for (FieldGrantExcludeGroup group : fieldPermissionsDefinition.getFieldGrantExcludeGroups()) {
        ramBytesUsed += BASE_FIELD_GROUP_BYTES + BASE_HASHSET_ENTRY_SIZE;
        if (group.getGrantedFields() != null) {
            ramBytesUsed += RamUsageEstimator.shallowSizeOf(group.getGrantedFields());
        }
        if (group.getExcludedFields() != null) {
            ramBytesUsed += RamUsageEstimator.shallowSizeOf(group.getExcludedFields());
        }
    }
    ramBytesUsed += permittedFieldsAutomaton.ramBytesUsed();
    ramBytesUsed += runAutomatonRamBytesUsed(permittedFieldsAutomaton);
    this.ramBytesUsed = ramBytesUsed;
}

/**
 * Return an estimation of the ram bytes used by a [CharacterRunAutomaton] that wraps the given automaton.
 */
private static long runAutomatonRamBytesUsed(Automaton a) {
    return a.getNumStates() * 5; // wild guess, better than 0
public static Automaton initializePermittedFieldsAutomaton(FieldPermissionsDefinition fieldPermissionsDefinition) {
    Set<FieldGrantExcludeGroup> groups = fieldPermissionsDefinition.getFieldGrantExcludeGroups();
    assert groups.size() > 0 : "there must always be a single group for field inclusion/exclusion";
    List<Automaton> automatonList =
        groups.stream()
            .map(g -> FieldPermissions.initializePermittedFieldsAutomaton(g.getGrantedFields(),
                g.getExcludedFields()))
            .collect(Collectors.toList());
    return Automatons.unionAndMinimize(automatonList);
}

private static Automaton initializePermittedFieldsAutomaton(final String[] grantedFields, final String[] deniedFields) {
    Automaton grantedFieldsAutomaton;
    if (grantedFields == null || Arrays.stream(grantedFields).anyMatch(Regex::isMatchAllPattern)) {
        grantedFieldsAutomaton = Automatons.MATCH_ALL;
    } else {
        // an automaton that includes metadata fields, including join fields created by the _parent field such
        // as _parent#type
        Automaton metaFieldsAutomaton = Operations.concatenate(Automata.makeChar('_'),
            Automata.makeAnyString());
        grantedFieldsAutomaton = Operations.union(Automatons.patterns(grantedFields), metaFieldsAutomaton);
    }

    Automaton deniedFieldsAutomaton;
    if (deniedFields == null || deniedFields.length == 0) {
        deniedFieldsAutomaton = Automatons.EMPTY;
    } else {
        deniedFieldsAutomaton = Automatons.patterns(deniedFields);
    }

    grantedFieldsAutomaton = MinimizationOperations.minimize(grantedFieldsAutomaton,
        Operations.DEFAULT_MAX_DETERMINIZED_STATES);
    deniedFieldsAutomaton = MinimizationOperations.minimize(deniedFieldsAutomaton,
        Operations.DEFAULT_MAX_DETERMINIZED_STATES);

    if (subsetOf(deniedFieldsAutomaton, grantedFieldsAutomaton) == false) {
        throw new ElasticsearchSecurityException("Exceptions for field permissions must be a subset of the "+
            "granted fields but " + Strings.arrayToCommaDelimitedString(deniedFields) + " is not a subset of " +
            Strings.arrayToCommaDelimitedString(grantedFields));
    }

    if (!containsAllField(grantedFields) && !containsAllField(deniedFields)) {
        // It is not explicitly stated whether _all should be allowed/denied
        // In that case we automatically disable _all, unless all fields would match
    }
if (Operations.isTotal(grantedFieldsAutomaton) && Operations.isEmpty(deniedFieldsAutomaton)) {
  // all fields are accepted, so using _all is fine
} else {
  deniedFieldsAutomaton = Operations.union(deniedFieldsAutomaton, 
  Automata.makeString(AllFieldMapper.NAME));
}
}

grantedFieldsAutomaton = Automatons.minusAndMinimize(grantedFieldsAutomaton, 
  deniedFieldsAutomaton);
return grantedFieldsAutomaton;

private static boolean containsAllField(String[] fields) {
  return fields != null && Arrays.stream(fields).anyMatch(AllFieldMapper.NAME::equals);
}

/**
 * Returns true if this field permission policy allows access to the field and false if not.
 * fieldName can be a wildcard.
 */
public boolean grantsAccessTo(String fieldName) {
  return permittedFieldsAutomatonIsTotal || permittedFieldsAutomaton.run(fieldName);
}

FieldPermissionsDefinition getFieldPermissionsDefinition() {
  return fieldPermissionsDefinition;
}

/** Return whether field-level security is enabled, ie. whether any field might be filtered out. */
public boolean hasFieldLevelSecurity() {
  return permittedFieldsAutomatonIsTotal == false;
}

/** Return a wrapped reader that only exposes allowed fields. */
public DirectoryReader filter(DirectoryReader reader) throws IOException {
  if (hasFieldLevelSecurity() == false) {
    return reader;
  }
  return FieldSubsetReader.wrap(reader, permittedFieldsAutomaton);
}

// for testing only
Automaton getIncludeAutomaton() {
  return originalAutomaton;
}

@Override
public boolean equals(Object o) {
    if (this == o) return true;
    if (o == null || getClass() != o.getClass()) return false;
    FieldPermissions that = (FieldPermissions) o;

    if (permittedFieldsAutomatonIsTotal != that.permittedFieldsAutomatonIsTotal) return false;
    return fieldPermissionsDefinition != null ?
        fieldPermissionsDefinition.equals(that.fieldPermissionsDefinition) : that.fieldPermissionsDefinition ==
        null;
}

@Override
public int hashCode() {
    int result = fieldPermissionsDefinition != null ? fieldPermissionsDefinition.hashCode() : 0;
    result = 31 * result + (permittedFieldsAutomatonIsTotal ? 1 : 0);
    return result;
}

@Override
public long ramBytesUsed() {
    return ramBytesUsed;
}

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 */
package org.elasticsearch.xpack.core.security.authz.permission;

import org.elasticsearch.xpack.core.security.authz.privilege.ClusterPrivilege;
import java.util.function.Predicate;

/**
 * A permission that is based on privileges for cluster wide actions
 */
public final class ClusterPermission {

    public static final ClusterPermission NONE = new ClusterPermission(ClusterPrivilege.NONE);

    private final ClusterPrivilege privilege;
    private final Predicate<String> predicate;

    ClusterPermission(ClusterPrivilege privilege) {
        this.privilege = privilege;
        this.predicate = privilege.predicate();
    }
public ClusterPrivilege privilege() {
    return privilege;
}

public boolean check(String action) {
    return predicate.test(action);
}
*/

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 * or more contributor license agreements. Licensed under the Elastic License;
 * you may not use this file except in compliance with the Elastic License.
 */

package org.elasticsearch.xpack.core.security.authz.permission;

import java.util.Arrays;
import java.util.Collections;
import java.util.Set;

/**
 * Represents the definition of a FieldPermissions. Field permissions are defined as a
 * collections of grant and exclude definitions where the exclude definition must be a subset of
 * the grant definition.
 */

public final class FieldPermissionsDefinition {

    private final Set<FieldGrantExcludeGroup> fieldGrantExcludeGroups;

    public FieldPermissionsDefinition(String[] grant, String[] exclude) {
        this(Collections.singleton(new FieldGrantExcludeGroup(grant, exclude)));
    }

    public FieldPermissionsDefinition(Set<FieldGrantExcludeGroup> fieldGrantExcludeGroups) {
        this.fieldGrantExcludeGroups = Collections.unmodifiableSet(fieldGrantExcludeGroups);
    }

    public Set<FieldGrantExcludeGroup> getFieldGrantExcludeGroups() {
        return fieldGrantExcludeGroups;
    }

    @Override
    public boolean equals(Object o) {
        if (this == o) return true;
        if (o == null || getClass() != o.getClass()) return false;
        FieldPermissionsDefinition that = (FieldPermissionsDefinition) o;

        return Objects.equals(fieldGrantExcludeGroups, that.fieldGrantExcludeGroups);
    }

    @Override
    public int hashCode() {
        return Objects.hash(fieldGrantExcludeGroups);
    }

    @Override
    public String toString() {
        return Arrays.toString(fieldGrantExcludeGroups);
    }
}
return fieldGrantExcludeGroups != null ?
    fieldGrantExcludeGroups.equals(that.fieldGrantExcludeGroups) :
    that.fieldGrantExcludeGroups == null;

@Override
public int hashCode() {
    return fieldGrantExcludeGroups != null ? fieldGrantExcludeGroups.hashCode() : 0;
}

public static final class FieldGrantExcludeGroup {
    private final String[] grantedFields;
    private final String[] excludedFields;

    public FieldGrantExcludeGroup(String[] grantedFields, String[] excludedFields) {
        this.grantedFields = grantedFields;
        this.excludedFields = excludedFields;
    }

    public String[] getGrantedFields() {
        return grantedFields;
    }

    public String[] getExcludedFields() {
        return excludedFields;
    }

    @Override
    public boolean equals(Object o) {
        if (this == o) return true;
        if (o == null || getClass() != o.getClass()) return false;
        FieldGrantExcludeGroup that = (FieldGrantExcludeGroup) o;
        if (!Arrays.equals(grantedFields, that.grantedFields)) return false;
        return Arrays.equals(excludedFields, that.excludedFields);
    }

    @Override
    public int hashCode() {
        int result = Arrays.hashCode(grantedFields);
        result = 31 * result + Arrays.hashCode(excludedFields);
        return result;
    }
}
import org.elasticsearch.action.Action;
import org.elasticsearch.client.ElasticsearchClient;

public class GetLicenseAction extends Action<GetLicenseRequest, GetLicenseResponse, GetLicenseRequestBuilder> {

    public static final GetLicenseAction INSTANCE = new GetLicenseAction();
    public static final String NAME = "cluster:monitor/xpack/license/get";

    private GetLicenseAction() {
        super(NAME);
    }

    @Override
    public GetLicenseResponse newResponse() {
        return new GetLicenseResponse();
    }

    @Override
    public GetLicenseRequestBuilder newRequestBuilder(ElasticsearchClient client) {
        return new GetLicenseRequestBuilder(client, this);
    }
}

import org.elasticsearch.Version;
import org.elasticsearch.cluster.AbstractNamedDiffable;
import org.elasticsearch.cluster.MergableCustomMetaData;
import org.elasticsearch.cluster.NamedDiff;
import org.elasticsearch.cluster.metadata.MetaData;
import org.elasticsearch.common.Nullable;
import org.elasticsearch.common.io.stream.StreamInput;
import org.elasticsearch.common.io.stream.StreamOutput;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.common.xcontent.XContentParser;
import org.elasticsearch.license.License.OperationMode;
import org.elasticsearch.xpack.core.XPackPlugin;
import java.io.IOException;
import java.util.EnumSet;

/**
 * Contains metadata about registered licenses
 */
public class LicensesMetaData extends AbstractNamedDiffable<MetaData.Custom> implements XPackPlugin.XPackMetaDataCustom,
MergableCustomMetaData<LicensesMetaData> {

public static final String TYPE = "licenses";

/**
 * When license is explicitly removed by a user, LICENSE_TOMBSTONE
 * is used as a placeholder in the license metadata. This enables
 * us to distinguish between the scenario when a cluster never
 * had a license (null) and when a license was removed explicitly
 * (LICENSE_TOMBSTONE).
 * We rely on this to decide whether to generate a unsigned trial
 * license or not. we should only generate a license if no license
 * ever existed in the cluster state
 */
public static final License LICENSE_TOMBSTONE = License.builder()
.type("trial")
.issuer("elasticsearch")
.uid("TOMBSTONE")
.issuedTo(""")
.maxNodes(0)
.issueDate(0)
.expiryDate(0)
.build();

private License license;

private Version trialVersion;

LicensesMetaData(License license, Version trialVersion) {
this.license = license;
this.trialVersion = trialVersion;
}

public License getLicense() {

return license;
}

boolean isEligibleForTrial() {
    if (trialVersion == null) {
        return true;
    }
    return Version.CURRENT.major > trialVersion.major;
}

Version getMostRecentTrialVersion() {
    return trialVersion;
}

@Override
public String toString() {
    return "LicensesMetaData{" +
            "license=" + license +
            ", trialVersion=" + trialVersion +
            '}'
    ;
}

@Override
public boolean equals(Object o) {
    if (this == o) return true;
    if (o == null || getClass() != o.getClass()) return false;
    LicensesMetaData that = (LicensesMetaData) o;
    if (license != null ? !license.equals(that.license) : that.license != null) return false;
    return trialVersion != null ? trialVersion.equals(that.trialVersion) : that.trialVersion == null;
}

@Override
public int hashCode() {
    int result = license != null ? license.hashCode() : 0;
    result = 31 * result + (trialVersion != null ? trialVersion.hashCode() : 0);
    return result;
}

@Override
public String getWriteableName() {
    return TYPE;
}

@Override
public Version getMinimalSupportedVersion() {
    return Version.CURRENT.minimumCompatibilityVersion();
}
@Override
public EnumSet<MetaData.XContentContext> context() {
    return EnumSet.of(MetaData.XContentContext.GATEWAY);
}

public static LicensesMetaData fromXContent(XContentParser parser) throws IOException {
    License license = LICENSE_TOMBSTONE;
    Version trialLicense = null;
    XContentParser.Token token;
    while ((token = parser.nextToken()) != XContentParser.Token.END_OBJECT) {
        if (token == XContentParser.Token.FIELD_NAME) {
            String fieldName = parser.currentName();
            if (fieldName != null) {
                if (fieldName.equals(Fields.LICENSE)) {
                    token = parser.nextToken();
                    if (token == XContentParser.Token.START_OBJECT) {
                        license = License.fromXContent(parser);
                    } else if (token == XContentParser.Token.VALUE_NULL) {
                        license = LICENSE_TOMBSTONE;
                    }
                } else if (fieldName.equals(Fields.TRIAL_LICENSE)) {
                    parser.nextToken();
                    trialLicense = Version.fromString(parser.text());
                }
            }
        }
    }
    return new LicensesMetaData(license, trialLicense);
}

@Override
public XContentBuilder toXContent(XContentBuilder builder, Params params) throws IOException {
    if (license == LICENSE_TOMBSTONE) {
        builder.nullField(Fields.LICENSE);
    } else {
        builder.startObject(Fields.LICENSE);
        license.toInnerXContent(builder, params);
        builder.endObject();
    }
    if (trialVersion != null) {
        builder.field(Fields.TRIAL_LICENSE, trialVersion.toString());
    }
    return builder;
}

@Override

public void writeTo(StreamOutput streamOutput) throws IOException {
if (license == LICENSE_TOMBSTONE) {
    streamOutput.writeBoolean(false); // no license
} else {
    streamOutput.writeBoolean(true); // has a license
    license.writeTo(streamOutput);
}
if (streamOutput.getVersion().onOrAfter(Version.V_6_1_0)) {
    if (trialVersion == null) {
        streamOutput.writeBoolean(false);
    } else {
        streamOutput.writeBoolean(true);
        Version.writeVersion(trialVersion, streamOutput);
    }
}
}

public LicensesMetaData(StreamInput streamInput) throws IOException {
if (streamInput.readBoolean()) {
    license = License.readLicense(streamInput);
} else {
    license = LICENSE_TOMBSTONE;
}
if (streamInput.getVersion().onOrAfter(Version.V_6_1_0)) {
    boolean hasExercisedTrial = streamInput.readBoolean();
    if (hasExercisedTrial) {
        this.trialVersion = Version.readVersion(streamInput);
    }
}
}

public static NamedDiff<MetaData.Custom> readDiffFrom(StreamInput streamInput) throws IOException {
    return readDiffFrom(MetaData.Custom.class, TYPE, streamInput);
}

public static License extractLicense(LicensesMetaData licensesMetaData) {
if (licensesMetaData != null) {
    License license = licensesMetaData.getLicense();
    if (license == LicensesMetaData.LICENSE_TOMBSTONE) {
        return null;
    } else {
        return license;
    }
} else {
    return null;
}
}

@Override
public LicensesMetaData merge(LicensesMetaData other) {
    if (other.license == null) {
        return this;
    } else if (license == null
        || OperationMode.compare(other.license.operationMode(), license.operationMode()) > 0) {
        return other;
    }
    return this;
}

private static final class Fields {
    private static final String LICENSE = "license";
    private static final String TRIAL_LICENSE = "trial_license";
}

package org.elasticsearch.license;

import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.rest.RestController;
import org.elasticsearch.rest.RestRequest;
import org.elasticsearch.rest.action.RestToXContentListener;
import org.elasticsearch.xpack.core.XPackClient;
import org.elasticsearch.xpack.core.rest.XPackRestHandler;
import java.io.IOException;
import static org.elasticsearch.rest.RestRequest.Method.DELETE;

public class RestDeleteLicenseAction extends XPackRestHandler {
    public RestDeleteLicenseAction(Settings settings, RestController controller) {
        super(settings);
        // @deprecated Remove deprecations in 6.0
        controller.registerWithDeprecatedHandler(DELETE, URI_BASE + "/license", this,
            DELETE, "/_license", deprecationLogger);
        // Remove _licenses support entirely in 6.0
        controller.registerAsDeprecatedHandler(DELETE, "/_licenses", this,
            "[DELETE /_licenses] is deprecated! Use " +
            "[DELETE /_xpack/license] instead.",
            deprecationLogger);
    }

    @Override
public String getName() {
    return "xpack_delete_license_action";
}

@Override
public RestChannelConsumer doPrepareRequest(final RestRequest request, final XPackClient client) throws IOException {
    DeleteLicenseRequest deleteLicenseRequest = new DeleteLicenseRequest();
    deleteLicenseRequest.timeout(request.paramAsTime("timeout", deleteLicenseRequest.timeout()));
    deleteLicenseRequest.masterNodeTimeout(request.paramAsTime("master_timeout",
    deleteLicenseRequest.masterNodeTimeout()));

    return channel -> client.es().admin().cluster().execute(DeleteLicenseAction.INSTANCE, deleteLicenseRequest,
    new RestToXContentListener<>(channel));
}

package org.elasticsearch.license;

import org.elasticsearch.action.Action;
import org.elasticsearch.client.ElasticsearchClient;

public class PutLicenseAction extends Action<PutLicenseRequest, PutLicenseResponse, PutLicenseRequestBuilder> {

    public static final PutLicenseAction INSTANCE = new PutLicenseAction();
    public static final String NAME = "cluster:admin/xpack/license/put";

    private PutLicenseAction() {
        super(NAME);
    }

    @Override
    public PutLicenseResponse newResponse() {
        return new PutLicenseResponse();
    }

    @Override
    public PutLicenseRequestBuilder newRequestBuilder(ElasticsearchClient client) {
        return new PutLicenseRequestBuilder(client, this);
    }

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     */

class PutLicenseAction extends Action<PutLicenseRequest, PutLicenseResponse, PutLicenseRequestBuilder> {

    private static final PutLicenseAction INSTANCE = new PutLicenseAction();
    public static final String NAME = "cluster:admin/xpack/license/put";

    public PutLicenseAction() {
        super(NAME);
    }

    @Override
    public PutLicenseResponse newResponse() {
        return new PutLicenseResponse();
    }

    @Override
    public PutLicenseRequestBuilder newRequestBuilder(ElasticsearchClient client) {
        return new PutLicenseRequestBuilder(client, this);
    }

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     */

}
package org.elasticsearch.license;

import org.elasticsearch.action.ActionRequestValidationException;
import org.elasticsearch.action.support.master.MasterNodeReadRequest;
import org.elasticsearch.common.io.stream.StreamInput;
import java.io.IOException;

public class GetBasicStatusRequest extends MasterNodeReadRequest<GetBasicStatusRequest> {

    public GetBasicStatusRequest() {
    }

    @Override
    public ActionRequestValidationException validate() {
        return null;
    }
}

package org.elasticsearch.license;

import org.elasticsearch.action.Action;
import org.elasticsearch.client.ElasticsearchClient;

public class GetTrialStatusAction extends Action<GetTrialStatusRequest, GetTrialStatusResponse, GetTrialStatusRequestBuilder> {

    public static final GetTrialStatusAction INSTANCE = new GetTrialStatusAction();
    public static final String NAME = "cluster:admin/xpack/license/trial_status";

    private GetTrialStatusAction() {
        super(NAME);
    }

    @Override
    public GetTrialStatusRequestBuilder newRequestBuilder(ElasticsearchClient client) {
        return new GetTrialStatusRequestBuilder(client, this);
    }

    @Override
    public GetTrialStatusResponse newResponse() {
        
    }
public class TransportGetBasicStatusAction extends TransportMasterNodeReadAction<GetBasicStatusRequest, GetBasicStatusResponse> {

    @Inject
    public TransportGetBasicStatusAction(Settings settings, TransportService transportService, ClusterService clusterService,
                                           ThreadPool threadPool, ActionFilters actionFilters,
                                           IndexNameExpressionResolver indexNameExpressionResolver) {
        super(settings, GetBasicStatusAction.NAME, transportService, clusterService, threadPool, actionFilters,
               indexNameExpressionResolver, GetBasicStatusRequest::new);
    }

    @Override
    protected String executor() {
        return ThreadPool.Names.SAME;
    }

    @Override
    protected GetBasicStatusResponse newResponse() {
        return new GetBasicStatusResponse();
    }

    @Override
    protected void masterOperation(GetBasicStatusRequest request, ClusterState state,
                                    ActionListener<GetBasicStatusResponse> listener) throws Exception {
        return new GetTrialStatusResponse();
    }
}

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*/

package org.elasticsearch.license;
import org.elasticsearch.action.ActionListener;
import org.elasticsearch.action.support.ActionFilters;
import org.elasticsearch.action.support.master.TransportMasterNodeReadAction;
import org.elasticsearch.cluster.ClusterState;
import org.elasticsearch.cluster.block.ClusterBlockException;
import org.elasticsearch.cluster.block.ClusterBlockLevel;
import org.elasticsearch.cluster.metadata.IndexNameExpressionResolver;
import org.elasticsearch.cluster.service.ClusterService;
import org.elasticsearch.common.inject.Inject;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.threadpool.ThreadPool;
import org.elasticsearch.transport.TransportService;

public class TransportGetBasicStatusAction extends TransportMasterNodeReadAction<GetBasicStatusRequest,
GetBasicStatusResponse> {

    @Inject
    public TransportGetBasicStatusAction(Settings settings, TransportService transportService, ClusterService
clusterService,
                                           ThreadPool threadPool, ActionFilters actionFilters,
                                           IndexNameExpressionResolver indexNameExpressionResolver) {
        super(settings, GetBasicStatusAction.NAME, transportService, clusterService, threadPool, actionFilters,
               indexNameExpressionResolver, GetBasicStatusRequest::new);
    }

    @Override
    protected String executor() {
        return ThreadPool.Names.SAME;
    }

    @Override
    protected GetBasicStatusResponse newResponse() {
        return new GetBasicStatusResponse();
    }

    @Override
    protected void masterOperation(GetBasicStatusRequest request, ClusterState state,
                                    ActionListener<GetBasicStatusResponse> listener) throws Exception {

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```java
LicensesMetaData licensesMetaData = state.metaData().custom(LicensesMetaData.TYPE);
if (licensesMetaData == null) {
    listener.onResponse(new GetBasicStatusResponse(true));
} else {
    License license = licensesMetaData.getLicense();
    listener.onResponse(new GetBasicStatusResponse(license == null || license.type().equals("basic") == false));
}

@Override
protected ClusterBlockException checkBlock(GetBasicStatusRequest request, ClusterState state) {
    return state.blocks().globalBlockedException(ClusterBlockLevel.METADATA_READ);
}

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 */
package org.elasticsearch.license;

import org.elasticsearch.action.ActionListener;
import org.elasticsearch.action.support.ActionFilters;
import org.elasticsearch.action.support.master.TransportMasterNodeAction;
import org.elasticsearch.cluster.ClusterState;
import org.elasticsearch.cluster.block.ClusterBlockException;
import org.elasticsearch.cluster.block.ClusterBlockLevel;
import org.elasticsearch.cluster.metadata.IndexNameExpressionResolver;
import org.elasticsearch.cluster.service.ClusterService;
import org.elasticsearch.common.inject.Inject;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.threadpool.ThreadPool;
import org.elasticsearch.transport.TransportService;

public class TransportPostStartBasicAction extends TransportMasterNodeAction<PostStartBasicRequest,
    PostStartBasicResponse> {

    private final LicenseService licenseService;

    @Inject
    public TransportPostStartBasicAction(Settings settings, TransportService transportService, ClusterService
        clusterService, LicenseService licenseService, ThreadPool threadPool, ActionFilters actionFilters,
        IndexNameExpressionResolver indexNameExpressionResolver) {
        super(settings, PostStartBasicAction.NAME, transportService, clusterService, threadPool, actionFilters,
            indexNameExpressionResolver, PostStartBasicRequest::new);
        this.licenseService = licenseService;
    }
```
package org.elasticsearch.license;

import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.rest.BytesRestResponse;
import org.elasticsearch.rest.RestController;
import org.elasticsearch.rest.RestRequest;
import org.elasticsearch.rest.RestResponse;
import org.elasticsearch.rest.action.RestBuilderListener;
import org.elasticsearch.xpack.core.XPackClient;
import org.elasticsearch.xpack.core.rest.XPackRestHandler;
import java.io.IOException;
import static org.elasticsearch.rest.RestRequest.Method.GET;

public class RestGetTrialStatus extends XPackRestHandler {

    RestGetTrialStatus(Settings settings, RestController controller) {

    @Override
    protected String executor() {
        return ThreadPool.Names.SAME;
    }

    @Override
    protected PostStartBasicResponse newResponse() {
        return new PostStartBasicResponse();
    }

    @Override
    protected void masterOperation(PostStartBasicRequest request, ClusterState state,
        ActionListener<PostStartBasicResponse> listener) throws Exception {
        licenseService.startBasicLicense(request, listener);
    }

    @Override
    protected ClusterBlockException checkBlock(PostStartBasicRequest request, ClusterState state) {
        return state.blocks().globalBlockedException(ClusterBlockLevel.METADATA_WRITE);
    }

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    */

    import org.elasticsearch.common.settings.Settings;
    import org.elasticsearch.common.xcontent.XContentBuilder;
    import org.elasticsearch.rest.BytesRestResponse;
    import org.elasticsearch.rest.RestController;
    import org.elasticsearch.rest.RestRequest;
    import org.elasticsearch.rest.RestResponse;
    import org.elasticsearch.rest.RestStatus;
    import org.elasticsearch.rest.action.RestBuilderListener;
    import org.elasticsearch.xpack.core.XPackClient;
    import org.elasticsearch.xpack.core.rest.XPackRestHandler;
    import java.io.IOException;
    import static org.elasticsearch.rest.RestRequest.Method.GET;

    public class RestGetTrialStatus extends XPackRestHandler {

        RestGetTrialStatus(Settings settings, RestController controller) {

            @Override
            protected String executor() {
                return ThreadPool.Names.SAME;
            }

            @Override
            protected PostStartBasicResponse newResponse() {
                return new PostStartBasicResponse();
            }

            @Override
            protected void masterOperation(PostStartBasicRequest request, ClusterState state,
                ActionListener<PostStartBasicResponse> listener) throws Exception {
                licenseService.startBasicLicense(request, listener);
            }

            @Override
            protected ClusterBlockException checkBlock(PostStartBasicRequest request, ClusterState state) {
                return state.blocks().globalBlockedException(ClusterBlockLevel.METADATA_WRITE);
            }

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            */
super(settings);

controller.registerHandler(GET, URI_BASE + "/license/trial_status", this);

@Override
protected RestChannelConsumer doPrepareRequest(RestRequest request, XPackClient client) throws IOException {
    return channel -> client.licensing().prepareGetStartTrial().execute(
        new RestBuilderListener<GetTrialStatusResponse>(channel) {
            @Override
            public RestResponse buildResponse(GetTrialStatusResponse response, XContentBuilder builder) throws Exception {
                builder.startObject();
                builder.field("eligible_to_start_trial", response.isEligibleToStartTrial());
                builder.endObject();
                return new BytesRestResponse(RestStatus.OK, builder);
            }
        });
    }

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 */

package org.elasticsearch.license;

import org.elasticsearch.action.Action;
import org.elasticsearch.client.ElasticsearchClient;

public class DeleteLicenseAction extends Action<DeleteLicenseRequest, DeleteLicenseResponse, DeleteLicenseRequestBuilder> {

    public static final DeleteLicenseAction INSTANCE = new DeleteLicenseAction();
    public static final String NAME = "cluster:admin/xpack/license/delete";

    private DeleteLicenseAction() {
        super(NAME);
    }

    @Override
    public DeleteLicenseResponse newResponse() {
        return new DeleteLicenseResponse();
    }

}
@Override
public DeleteLicenseRequestBuilder newRequestBuilder(ElasticsearchClient client) {
    return new DeleteLicenseRequestBuilder(client, this);
}

package org.elasticsearch.license;

import org.elasticsearch.action.ActionRequestValidationException;
import org.elasticsearch.action.support.master.MasterNodeReadRequest;
import org.elasticsearch.common.io.stream.StreamInput;
import java.io.IOException;

public class GetTrialStatusRequest extends MasterNodeReadRequest<GetTrialStatusRequest> {

    public GetTrialStatusRequest() {
    }

    @Override
    public ActionRequestValidationException validate() {
        return null;
    }
}

package org.elasticsearch.license;

import org.apache.lucene.util.BytesRef;
import org.apache.lucene.util.BytesRefIterator;
import org.elasticsearch.common.bytes.BytesReference;
import org.elasticsearch.common.xcontent.ToXContent;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.common.xcontent.XContentFactory;
import org.elasticsearch.common.xcontent.XContentType;
import org.elasticsearch.core.internal.io.Streams;
import java.io.ByteArrayOutputStream;
import java.io.IOException;

import org.apache.lucene.util.BytesRef;
import org.apache.lucene.util.BytesRefIterator;
import org.elasticsearch.common.bytes.BytesReference;
import org.elasticsearch.common.xcontent.ToXContent;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.common.xcontent.XContentFactory;
import org.elasticsearch.core.internal.io.Streams;
import java.io.ByteArrayOutputStream;
import java.io.IOException;

import java.io.IOException;
import java.io.InputStream;
import java.nio.ByteBuffer;
import java.security.InvalidKeyException;
import java.security.NoSuchAlgorithmException;
import java.security.Signature;
import java.security.SignatureException;
import java.util.Arrays;
import java.util.Base64;
import java.util.Collections;

/**
 * Responsible for verifying signed licenses
 */

public class LicenseVerifier {

    /**
     * verifies the license content with the signature using the packaged
     * @param license to verify
     * @return true if valid, false otherwise
     */

    public static boolean verifyLicense(final License license, byte[] encryptedPublicKeyData) {
        byte[] signedContent = null;
        byte[] signatureHash = null;
        try {
            byte[] signatureBytes = Base64.getDecoder().decode(license.signature());
            ByteBuffer byteBuffer = ByteBuffer.wrap(signatureBytes);
            int version = byteBuffer.getInt();
            int magicLen = byteBuffer.getInt();
            byte[] magic = new byte[magicLen];
            byteBuffer.get(magic);
            int hashLen = byteBuffer.getInt();
            signatureHash = new byte[hashLen];
            byteBuffer.get(signatureHash);
            int signedContentLen = byteBuffer.getInt();
            signedContent = new byte[signedContentLen];
            byteBuffer.get(signedContent);
            XContentBuilder contentBuilder = XContentFactory.contentBuilder(XContentType.JSON);
            license.toXContent(contentBuilder, new ToXContent.MapParams(Collections.singletonMap(License.LICENSE_SPEC_VIEW_MODE, "true")));
            Signature rsa = Signature.getInstance("SHA512withRSA");
            rsa.initVerify(CryptUtils.readEncryptedPublicKey(encryptedPublicKeyData));
            BytesRefIterator iterator = BytesReference.bytes(contentBuilder).iterator();
            BytesRef ref;
            while((ref = iterator.next()) != null) {
                rsa.update(ref.bytes, ref.offset, ref.length);
            }
            return rsa.verify(signedContent)
        } catch (Exception e) {
            e.printStackTrace();
            return false;
        }
    }
}
&& Arrays.equals(Base64.getEncoder().encode(encryptedPublicKeyData), signatureHash);
} catch (IOException | NoSuchAlgorithmException | SignatureException | InvalidKeyException e) {
    throw new IllegalStateException(e);
} finally {
    Arrays.fill(encryptedPublicKeyData, (byte) 0);
    if (signedContent != null) {
        Arrays.fill(signedContent, (byte) 0);
    }
    if (signatureHash != null) {
        Arrays.fill(signatureHash, (byte) 0);
    }
}

public static boolean verifyLicense(final License license) {
    final byte[] publicKeyBytes;
    try (InputStream is = LicenseVerifier.class.getResourceAsStream("/public.key")) {
        ByteArrayOutputStream out = new ByteArrayOutputStream();
        Streams.copy(is, out);
        publicKeyBytes = out.toByteArray();
    } catch (IOException ex) {
        throw new IllegalStateException(ex);
    }
    return verifyLicense(license, publicKeyBytes);
}

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 */
package org.elasticsearch.license;

import org.apache.logging.log4j.Logger;
import org.apache.logging.log4j.message.ParameterizedMessage;
import org.elasticsearch.Version;
import org.elasticsearch.action.ActionListener;
import org.elasticsearch.cluster.ClusterState;
import org.elasticsearch.cluster.ClusterStateUpdateTask;
import org.elasticsearch.cluster.metadata.MetaData;
import org.elasticsearch.common.Nullable;
import org.elasticsearch.xpack.core.XPackPlugin;
import java.time.Clock;
import java.util.Collections;
import java.util.Map;
import java.util.UUID;
import java.util.concurrent.atomic.AtomicReference;

import java.time.Clock;
import java.util.Collections;
import java.util.Map;
import java.util.UUID;
import java.util.concurrent.atomic.AtomicReference;
public class StartBasicClusterTask extends ClusterStateUpdateTask {

    private static final String ACKNOWLEDGEMENT_HEADER = "This license update requires acknowledgement. To acknowledge the license, " + "please read the following messages and call /start_basic again, this time with the \"acknowledge=true\" parameter;";

    private final Logger logger;
    private final String clusterName;
    private final PostStartBasicRequest request;
    private final ActionListener<PostStartBasicResponse> listener;
    private final Clock clock;
    private AtomicReference<Map<String, String[]>> ackMessages = new AtomicReference<>(Collections.emptyMap());

    StartBasicClusterTask(Logger logger, String clusterName, Clock clock, PostStartBasicRequest request, ActionListener<PostStartBasicResponse> listener) {
        this.logger = logger;
        this.clusterName = clusterName;
        this.request = request;
        this.listener = listener;
        this.clock = clock;
    }

    @Override
    public void clusterStateProcessed(String source, ClusterState oldState, ClusterState newState) {
        LicensesMetaData oldLicensesMetaData = oldState.metaData().custom(LicensesMetaData.TYPE);
        logger.debug("license prior to starting basic license: ", oldLicensesMetaData);
        License oldLicense = LicensesMetaData.extractLicense(oldLicensesMetaData);
        Map<String, String[]> acknowledgeMessages = ackMessages.get();
        if (acknowledgeMessages.isEmpty() == false) {
            listener.onResponse(new PostStartBasicResponse(PostStartBasicResponse.Status.NEED_ACKNOWLEDGEMENT, acknowledgeMessages, ACKNOWLEDGEMENT_HEADER));
        } else if (oldLicense != null && oldLicense.type().equals("basic")) {
            listener.onResponse(new PostStartBasicResponse(PostStartBasicResponse.Status.ALREADY_USING_BASIC));
        } else {
            listener.onResponse(new PostStartBasicResponse(PostStartBasicResponse.Status.GENERATED_BASIC));
        }
    }

    @Override
    public ClusterState execute(ClusterState currentState) throws Exception {
        XPackPlugin.checkReadyForXPackCustomMetadata(currentState);
        LicensesMetaData licensesMetaData = currentState.metaData().custom(LicensesMetaData.TYPE);
        License currentLicense = LicensesMetaData.extractLicense(licensesMetaData);
    }
if (currentLicense == null || currentLicense.type().equals("basic") == false) {
    long issueDate = clock.millis();
    MetaData.Builder mdBuilder = MetaData.builder(currentState.metaData());
    License.Builder specBuilder = License.builder()
        .uid(UUID.randomUUID().toString())
        .issuedTo(clusterName)
        .maxNodes(LicenseService.SELF_GENERATED_LICENSE_MAX_NODES)
        .issueDate(issueDate)
        .type("basic")
        .expiryDate(LicenseService.BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS);
    License selfGeneratedLicense = SelfGeneratedLicense.create(specBuilder);
    if (request.isAcknowledged() == false && currentLicense != null) {
        Map<String, String[]> ackMessages = LicenseService.getAckMessages(selfGeneratedLicense,
            currentLicense);
        if (ackMessages.isEmpty() == false) {
            this.ackMessages.set(ackMessages);
            return currentState;
        }
    }
    Version trialVersion = null;
    if (licensesMetaData != null) {
        trialVersion = licensesMetaData.getMostRecentTrialVersion();
    }
    LicensesMetaData newLicensesMetaData = new LicensesMetaData(selfGeneratedLicense, trialVersion);
    mdBuilder.putCustom(LicensesMetaData.TYPE, newLicensesMetaData);
    return ClusterState.builder(currentState).metaData(mdBuilder).build();
} else {
    return currentState;
}

@Override
public void onFailure(String source, @Nullable Exception e) {
    logger.error(new ParameterizedMessage("unexpected failure during 
[{}]", source), e);
    listener.onFailure(e);
}

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*/
package org.elasticsearch.license;

import org.elasticsearch.Version;
import org.elasticsearch.common.Nullable;
import org.elasticsearch.common.Strings;
import org.elasticsearch.common.logging.LoggerMessageFormat;
import org.elasticsearch.common.logging.Loggers;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.license.License.OperationMode;
import org.elasticsearch.xpack.core.XPackField;
import org.elasticsearch.xpack.core.XPackSettings;
import org.elasticsearch.xpack.core.monitoring.MonitoringField;

import java.util.Collections;
import java.util.LinkedHashMap;
import java.util.List;
import java.util.Map;
import java.util.Objects;
import java.util.concurrent.CopyOnWriteArrayList;
import java.util.function.BiFunction;

/**
 * A holder for the current state of the license for all xpack features.
 */
public class XPackLicenseState {

    /** Messages for each feature which are printed when the license expires. */
    static final Map<String, String[]> EXPIRATION_MESSAGES;
    static {
        Map<String, String[]> messages = new LinkedHashMap<>();
        messages.put(XPackField.SECURITY, new String[] {
            "Cluster health, cluster stats and indices stats operations are blocked",
            "All data operations (read and write) continue to work"
        });
        messages.put(XPackField.WATCHER, new String[] {
            "PUT / GET watch APIs are disabled, DELETE watch API continues to work",
            "Watches execute and write to the history",
            "The actions of the watches don’t execute"
        });
        messages.put(XPackField.MONITORING, new String[] {
            "The agent will stop collecting cluster and indices metrics",
            "The agent will stop automatically cleaning indices older than [xpack.monitoring.history.duration]"
        });
        messages.put(XPackField.GRAPH, new String[] {
            "Graph explore APIs are disabled"
        });
        messages.put(XPackField.MACHINE_LEARNING, new String[] {
            "Machine learning APIs are disabled"
        });
        messages.put(XPackField.LOGSTASH, new String[] {
            "Logstash will continue to poll centrally-managed pipelines"
        });
        messages.put(XPackField.DEPRECIATION, new String[] {
            "Deprecation APIs are disabled"
        });
    }
messages.put(XPackField.UPGRADE, new String[] {
    "Upgrade API is disabled"
});
messages.put(XPackField.SQL, new String[] {
    "SQL support is disabled"
});
messages.put(XPackField.ROLLUP, new String[] {
    "Creating and Starting rollup jobs will no longer be allowed."
    "Stopping/Deleting existing jobs, RollupCaps API and RollupSearch continue to function."
});
EXPIRATION_MESSAGES = Collections.unmodifiableMap(messages);

/**
 * Messages for each feature which are printed when the license type changes.
 * The value is a function taking the old and new license type, and returns the messages for that feature.
 */
static final Map<String, BiFunction<OperationMode, OperationMode, String[]>> ACKNOWLEDGMENT_MESSAGES;
static {
    Map<String, BiFunction<OperationMode, OperationMode, String[]>> messages = new LinkedHashMap<>();
    messages.put(XPackField.SECURITY, XPackLicenseState::securityAcknowledgementMessages);
    messages.put(XPackField.WATCHER, XPackLicenseState::watcherAcknowledgementMessages);
    messages.put(XPackField.MONITORING, XPackLicenseState::monitoringAcknowledgementMessages);
    messages.put(XPackField.GRAPH, XPackLicenseState::graphAcknowledgementMessages);
    messages.put(XPackField.MACHINE_LEARNING, XPackLicenseState::machineLearningAcknowledgementMessages);
    messages.put(XPackField.LOGSTASH, XPackLicenseState::logstashAcknowledgementMessages);
    messages.put(XPackField.SQL, XPackLicenseState::sqlAcknowledgementMessages);
    ACKNOWLEDGMENT_MESSAGES = Collections.unmodifiableMap(messages);
}

private static String[] securityAcknowledgementMessages(OperationMode currentMode, OperationMode newMode) {
    switch (newMode) {
        case BASIC:
            switch (currentMode) {
                case TRIAL:
                case STANDARD:
                case GOLD:
                case PLATINUM:
                    return new String[] {
                        "The following X-Pack security functionality will be disabled: authentication, authorization, " +
                        "ip filtering, and auditing. Please restart your node after applying the license."
                        "Field and document level access control will be disabled."
                        "Custom realms will be ignored."
                    };
        }
break;
case GOLD:
switch (currentMode) {
case BASIC:
case STANDARD:
  // ^^ though technically it was already disabled, it's not bad to remind them
case TRIAL:
case PLATINUM:
  return new String[] {
    "Field and document level access control will be disabled.",
    "Custom realms will be ignored."
  };
}
break;
case STANDARD:
switch (currentMode) {
case BASIC:
  // ^^ though technically it was already disabled, it's not bad to remind them
case GOLD:
case PLATINUM:
case TRIAL:
  return new String[] {
    "Authentication will be limited to the native realms.",
    "IP filtering and auditing will be disabled.",
    "Field and document level access control will be disabled.",
    "Custom realms will be ignored."
  };
}
return Strings.EMPTY_ARRAY;

private static String[] watcherAcknowledgementMessages(OperationMode currentMode, OperationMode newMode) {
  switch (newMode) {
  case BASIC:
    switch (currentMode) {
    case TRIAL:
    case STANDARD:
    case GOLD:
    case PLATINUM:
      return new String[] { "Watcher will be disabled" };
    }
  break;
  }
  return Strings.EMPTY_ARRAY;
private static String[] monitoringAcknowledgementMessages(OperationMode currentMode, OperationMode newMode) {
    switch (newMode) {
        case BASIC:
            switch (currentMode) {
                case TRIAL:
                case STANDARD:
                case GOLD:
                case PLATINUM:
                    return new String[] {
                        LoggerMessageFormat.format("Multi-cluster support is disabled for clusters with \[\] license. If you are\n" +
                        "running multiple clusters, users won't be able to access the clusters with\n" +
                        "\[\] licenses from within a single X-Pack Kibana instance. You will have to deploy a\n" +
                        "separate and dedicated X-pack Kibana instance for each \[\] cluster you wish to monitor.",
                        newMode, newMode, newMode),
                        LoggerMessageFormat.format("Automatic index cleanup is locked to \{} days for clusters with \[\] license.",
                        MonitoringField.HISTORY_DURATION.getDefault(Settings.EMPTY).days(), newMode)
                    };
                break;
            }
            return Strings.EMPTY_ARRAY;
    }

    private static String[] graphAcknowledgementMessages(OperationMode currentMode, OperationMode newMode) {
        switch (newMode) {
            case BASIC:
            case STANDARD:
            case GOLD:
                switch (currentMode) {
                    case TRIAL:
                    case PLATINUM:
                        return new String[] { "Graph will be disabled" };
                    }
                break;
            }
        return Strings.EMPTY_ARRAY;
    }

    private static String[] machineLearningAcknowledgementMessages(OperationMode currentMode, OperationMode newMode) {
        switch (newMode) {
            case BASIC:
            case STANDARD:
            case GOLD:
                switch (currentMode) {
                    case TRIAL:
                    case PLATINUM:
                        return new String[] { "Graph will be disabled" };
                    }
                break;
        }
    }
case GOLD:
    switch (currentMode) {
        case TRIAL:
        case PLATINUM:
            return new String[] { "Machine learning will be disabled" };
        }
    break;
    }
    return Strings.EMPTY_ARRAY;
}

private static String[] logstashAcknowledgementMessages(OperationMode currentMode, OperationMode newMode) {
    switch (newMode) {
        case BASIC:
            switch (currentMode) {
                case TRIAL:
                case STANDARD:
                case GOLD:
                case PLATINUM:
                    return new String[] { "Logstash will no longer poll for centrally-managed pipelines" };
                }
            break;
        }
    return Strings.EMPTY_ARRAY;
}

private static String[] sqlAcknowledgementMessages(OperationMode currentMode, OperationMode newMode) {
    switch (newMode) {
        case BASIC:
        case STANDARD:
        case GOLD:
            switch (currentMode) {
                case TRIAL:
                case PLATINUM:
                    return new String[] { "JDBC support will be disabled, but you can continue to use SQL CLI and
                                    REST endpoint" };
                }
            break;
        }
    return Strings.EMPTY_ARRAY;
}

/** A wrapper for the license mode and state, to allow atomically swapping. */
private static class Status {
    /** The current "mode" of the license (ie license type). */
    final OperationMode mode;
/** True if the license is active, or false if it is expired. */
final boolean active;

Status(OperationMode mode, boolean active) {
    this.mode = mode;
    this.active = active;
}

private volatile Status status = new Status(OperationMode.TRIAL, true);
private final List<Runnable> listeners = new CopyOnWriteArrayList<>();
private final boolean isSecurityEnabled;
private final boolean isSecurityExplicitlyEnabled;
private volatile boolean isSecurityEnabledByTrialVersion;

public XPackLicenseState(Settings settings) {
    this.isSecurityEnabled = XPackSettings.SECURITY_ENABLED.get(settings);
    // 6.0+ requires TLS for production licenses, so if TLS is enabled and security is enabled
    // we can interpret this as an explicit enabling of security if the security enabled
    // setting is not explicitly set
    this.isSecurityExplicitlyEnabled = isSecurityEnabled &&
        (settings.hasValue(XPackSettings.SECURITY_ENABLED.getKey()) ||
         XPackSettings.TRANSPORT_SSL_ENABLED.get(settings));
    this.isSecurityEnabledByTrialVersion = false;
}

/**
 * Updates the current state of the license, which will change what features are available.
 *
 * @param mode   The mode (type) of the current license.
 * @param active True if the current license exists and is within its allowed usage period; false if it is expired or
 * missing.
 * @param mostRecentTrialVersion If this cluster has, at some point commenced a trial, the most recent version
 * on which they did that.
 * @param trial was prior to this metadata being tracked (6.1)
 */
void update(OperationMode mode, boolean active, @Nullable Version mostRecentTrialVersion) {
    status = new Status(mode, active);
    if (isSecurityEnabled == true && isSecurityExplicitlyEnabled == false && mode == OperationMode.TRIAL
        && isSecurityEnabledByTrialVersion == false) {
        // Before 6.3, Trial licenses would default having security enabled.
        // If this license was generated before that version, then treat it as if security is explicitly enabled
        if (mostRecentTrialVersion == null || mostRecentTrialVersion.before(Version.V_6_3_0)) {
            Loggers.getLogger(getClass()).info("Automatically enabling security for older trial license ({}).", mostRecentTrialVersion == null ? "[pre 6.1.0]" : mostRecentTrialVersion.toString());
        }
    }
}
isSecurityEnabledByTrialVersion = true;
}
}
listeners.forEach(Runnable::run);
}

/** Add a listener to be notified on license change */
public void addListener(Runnable runnable) {
    listeners.add(Objects.requireNonNull(runnable));
}

/** Remove a listener */
public void removeListener(Runnable runnable) {
    listeners.remove(runnable);
}

/** Return the current license type. */
public OperationMode getOperationMode() {
    return status.mode;
}

/** Return true if the license is currently within its time boundaries, false otherwise. */
public boolean isActive() {
    return status.active;
}

/**
* @return true if authentication and authorization should be enabled. this does not indicate what realms are available
* @see #allowedRealmType() for the enabled realms
*/
public boolean isAuthAllowed() {
    OperationMode mode = status.mode;
    return mode == OperationMode.STANDARD || mode == OperationMode.GOLD || mode == OperationMode.PLATINUM
    || mode == OperationMode.TRIAL;
}

/**
* @return true if IP filtering should be enabled
*/
public boolean isIpFilteringAllowed() {
    OperationMode mode = status.mode;
    return mode == OperationMode.GOLD || mode == OperationMode.PLATINUM
    || mode == OperationMode.TRIAL;
}
* @return true if auditing should be enabled
*/
public boolean isAuditingAllowed() {
    OperationMode mode = status.mode;
    return mode == OperationMode.GOLD || mode == OperationMode.PLATINUM
    || mode == OperationMode.TRIAL;
}

/**
* Indicates whether the stats and health API calls should be allowed. If a license is expired and past the grace
* period then we deny these calls.
*
* @return true if the license allows for the stats and health APIs to be used.
*/
public boolean isStatsAndHealthAllowed() {
    return status.active;
}

/**
* Determine if Document Level Security (DLS) and Field Level Security (FLS) should be enabled.
* DLS and FLS are only disabled when the mode is not:
* <ul>
*   <li>{@link OperationMode#PLATINUM}</li>
*   <li>{@link OperationMode#TRIAL}</li>
* </ul>
* Note: This does not consider the <em>state</em> of the license so that Security does not suddenly leak
* information!
*
* @return [ @code true ] to enable DLS and FLS. Otherwise [ @code false ].
*/
public boolean isDocumentAndFieldLevelSecurityAllowed() {
    OperationMode mode = status.mode;
    return mode == OperationMode.TRIAL || mode == OperationMode.PLATINUM;
}

/** Classes of realms that may be available based on the license type. */
public enum AllowedRealmType {
    NONE,
    NATIVE,
    DEFAULT,
    ALL
}

/**
* @return the type of realms that are enabled based on the license [ @link OperationMode]
*/
public AllowedRealmType allowedRealmType() {

switch (status.mode) {
    case PLATINUM:
    case TRIAL:
        return AllowedRealmType.ALL;
    case GOLD:
        return AllowedRealmType.DEFAULT;
    case STANDARD:
        return AllowedRealmType.NATIVE;
    default:
        return AllowedRealmType.NONE;
}

/**
 * @return whether custom role providers are allowed based on the license {@link OperationMode}
 */
public boolean isCustomRoleProvidersAllowed() {
    final Status localStatus = status;
    return (localStatus.mode == OperationMode.PLATINUM || localStatus.mode == OperationMode.TRIAL )
            && localStatus.active;
}

/**
 * Determine if Watcher is available based on the current license.
 * <p>
 * Watcher is available if the license is active (hasn't expired) and of one of the following types:
 * <ul>
 * <li>{@link OperationMode#STANDARD}</li>
 * <li>{@link OperationMode#PLATINUM}</li>
 * <li>{@link OperationMode#GOLD}</li>
 * <li>{@link OperationMode#TRIAL}</li>
 * </ul>
 *<p>
 * @return {@code true} as long as the license is valid. Otherwise {@code false}.
 */
public boolean isWatcherAllowed() {
    // status is volatile, so a local variable is used for a consistent view
    Status localStatus = status;

    if (localStatus.active == false) {
        return false;
    }

    switch (localStatus.mode) {
        case TRIAL:
        case GOLD:
        case PLATINUM:
        case STANDARD:
/**
* Monitoring is always available as long as there is a valid license
* @return true if the license is active
*/
public boolean isMonitoringAllowed() {
    return status.active;
}

/**
* Monitoring Cluster Alerts requires the equivalent license to use Watcher.
* @return {
*  @link #isWatcherAllowed()}
* @see #isWatcherAllowed()
*/
public boolean isMonitoringClusterAlertsAllowed() {
    return isWatcherAllowed();
}

/**
* Determine if the current license allows the retention of indices to be modified.
* <p>
* Only users with a non-{@link OperationMode#BASIC} license can update the retention period.
* <p>
* Note: This does not consider the <em>state</em> of the license so that any change is remembered for when
* they fix their license.
* <p>
* @return {@code true} if the user is allowed to modify the retention. Otherwise {@code false}.
*/
public boolean isUpdateRetentionAllowed() {
    final OperationMode mode = status.mode;
    return mode != OperationMode.BASIC && mode != OperationMode.MISSING;
}

/**
* Determine if Graph Exploration should be enabled.
* <p>
* Exploration is only disabled when the license has expired or if the mode is not:
* <ul>
*  <li>{@link OperationMode#PLATINUM}</li>
*  <li>{@link OperationMode#TRIAL}</li>
* </ul>
*
public boolean isGraphAllowed() {
    // status is volatile
    Status localStatus = status;
    OperationMode operationMode = localStatus.mode;

    boolean licensed = operationMode == OperationMode.TRIAL || operationMode ==
    OperationMode.PLATINUM;

    return licensed && localStatus.active;
}

/**
* Determine if Machine Learning should be enabled.
* <p>
* Machine Learning is only disabled when the license has expired or if the
* mode is not:
* <ul>
* <li>{@link OperationMode#PLATINUM}</li>
* <li>{@link OperationMode#TRIAL}</li>
* </ul>
* 
* @return { @code true} as long as the license is valid. Otherwise
*         { @code false}.
* */
public boolean isMachineLearningAllowed() {
    // status is volatile
    Status localStatus = status;
    OperationMode operationMode = localStatus.mode;

    boolean licensed = operationMode == OperationMode.TRIAL || operationMode ==
    OperationMode.PLATINUM;

    return licensed && localStatus.active;
}

/**
* Rollup is always available as long as there is a valid license
* 
* @return true if the license is active
* */
public boolean isRollupAllowed() {
    return status.active;
}

/**
* @return { @code true} as long as the license is valid. Otherwise { @code false}.
*/
public boolean isLogstashAllowed() {
    Status localStatus = status;

    if (localStatus.active == false) {
        return false;
    }

    switch (localStatus.mode) {
        case TRIAL:
        case GOLD:
        case PLATINUM:
        case STANDARD:
            return true;
        default:
            return false;
    }
}

/**
 * Deprecation APIs are always allowed as long as there is an active license
 * @return [@code true] as long as there is a valid license
 */
public boolean isDeprecationAllowed() {
    return status.active;
}

/**
 * Determine if Upgrade API should be enabled.
 * <p>
 * Upgrade API is not available in for all license types except [@link OperationMode#MISSING]
 * @return [@code true] as long as the license is valid. Otherwise
 *         [@code false].
 */
public boolean isUpgradeAllowed() {
    // status is volatile
    Status localStatus = status;
    // Should work on all active licenses
    return localStatus.active;
}

/**
 * Determine if SQL support should be enabled.
 * <p>
 * SQL is available for all license types except [@link OperationMode#MISSING]

 */
public boolean isSqlAllowed() {
    return status.active;
}

/**
 * Determine if JDBC support should be enabled.
 * <p>
 * JDBC is available only in for { @link OperationMode#PLATINUM} and { @link OperationMode#TRIAL} licences
 * 
 */
public boolean isJdbcAllowed() {
    // status is volatile
    Status localStatus = status;
    OperationMode operationMode = localStatus.mode;

    boolean licensed = operationMode == OperationMode.TRIAL || operationMode ==
    OperationMode.PLATINUM;

    return licensed && localStatus.active;
}

public boolean isTrialLicense() {
    return status.mode == OperationMode.TRIAL;
}

public boolean isSecurityAvailable() {
    OperationMode mode = status.mode;
    return mode == OperationMode.GOLD || mode == OperationMode.PLATINUM || mode ==
    OperationMode.STANDARD ||
    mode == OperationMode.TRIAL;
}

public boolean isSecurityEnabled() {
    final OperationMode mode = status.mode;
    return mode == OperationMode.TRIAL ? (isSecurityExplicitlyEnabled || isSecurityEnabledByTrialVersion) :
    isSecurityEnabled;
}

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 * or more contributor license agreements. Licensed under the Elastic License;
 * you may not use this file except in compliance with the Elastic License.
 */
package org.elasticsearch.license;

import org.elasticsearch.action.support.master.AcknowledgedResponse;
import org.elasticsearch.common.io.stream.StreamInput;

import org.elasticsearch.action.support.master.AcknowledgedResponse;
import org.elasticsearch.common.io.stream.StreamInput;
import org.elasticsearch.common.io.stream.StreamOutput;

import java.io.IOException;

public class DeleteLicenseResponse extends AcknowledgedResponse {

    DeleteLicenseResponse() {
    }

    DeleteLicenseResponse(boolean acknowledged) {
        super(acknowledged);
    }

    @Override
    public void readFrom(StreamInput in) throws IOException {
        super.readFrom(in);
        readAcknowledged(in);
    }

    @Override
    public void writeTo(StreamOutput out) throws IOException {
        super.writeTo(out);
        writeAcknowledged(out);
    }
}

 sürücü /*
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 */
package org.elasticsearch.license;

import org.elasticsearch.action.support.master.AcknowledgedResponse;
import org.elasticsearch.common.Strings;
import org.elasticsearch.common.io.stream.StreamInput;
import org.elasticsearch.common.io.stream.StreamOutput;
import org.elasticsearch.common.xcontent.XContentBuilder;

import java.io.IOException;
import java.util.Collections;
import java.util.HashMap;
import java.util.Map;

public class PutLicenseResponse extends AcknowledgedResponse {

    private LicensesStatus status;
    private Map<String, String[]> acknowledgeMessages;

    private PutLicenseResponse() {
    }

    PutLicenseResponse(boolean acknowledged) {
        super(acknowledged);
    }

    @Override
    public void readFrom(StreamInput in) throws IOException {
        super.readFrom(in);
        readAcknowledged(in);
    }

    @Override
    public void writeTo(StreamOutput out) throws IOException {
        super.writeTo(out);
        writeAcknowledged(out);
    }
}
private String acknowledgeHeader;

PutLicenseResponse() {
}

public PutLicenseResponse(boolean acknowledged, LicensesStatus status) {
    this(acknowledged, status, null, Collections.<String, String[]>emptyMap());
}

public PutLicenseResponse(boolean acknowledged, LicensesStatus status, String acknowledgeHeader,
        Map<String, String[]> acknowledgeMessages) {
    super(acknowledged);
    this.status = status;
    this.acknowledgeHeader = acknowledgeHeader;
    this.acknowledgeMessages = acknowledgeMessages;
}

public LicensesStatus status() {
    return status;
}

public Map<String, String[]> acknowledgeMessages() {
    return acknowledgeMessages;
}

public String acknowledgeHeader() {
    return acknowledgeHeader;
}

@Override
public void readFrom(StreamInput in) throws IOException {
    super.readFrom(in);
    readAcknowledged(in);
    status = LicensesStatus.fromId(in.readVInt());
    acknowledgeHeader = in.readOptionalString();
    int size = in.readVInt();
    Map<String, String[]> acknowledgeMessages = new HashMap<>(size);
    for (int i = 0; i < size; i++) {
        String feature = in.readString();
        int nMessages = in.readVInt();
        String[] messages = new String[nMessages];
        for (int j = 0; j < nMessages; j++) {
            messages[j] = in.readString();
        }
        acknowledgeMessages.put(feature, messages);
    }
    this.acknowledgeMessages = acknowledgeMessages;
}
@Override
public void writeTo(StreamOutput out) throws IOException {
    super.writeTo(out);
    writeAcknowledged(out);
    out.writeVInt(status.id());
    out.writeOptionalString(acknowledgeHeader);
    out.writeVInt(acknowledgeMessages.size());
    for (Map.Entry<String, String[]> entry : acknowledgeMessages.entrySet()) {
        out.writeString(entry.getKey());
        out.writeVInt(entry.getValue().length);
        for (String message : entry.getValue()) {
            out.writeString(message);
        }
    }
}

@Override
protected void addCustomFields(XContentBuilder builder, Params params) throws IOException {
    switch (status) {
        case VALID:
            builder.field("license_status", "valid");
            break;
        case INVALID:
            builder.field("license_status", "invalid");
            break;
        case EXPIRED:
            builder.field("license_status", "expired");
            break;
        default:
            throw new IllegalArgumentException("unknown status [" + status + "] found");
    }
    if (!acknowledgeMessages.isEmpty()) {
        builder.startObject("acknowledge");
        builder.field("message", acknowledgeHeader);
        for (Map.Entry<String, String[]> entry : acknowledgeMessages.entrySet()) {
            builder.startArray(entry.getKey());
            for (String message : entry.getValue()) {
                builder.value(message);
            }
            builder.endArray();
        }
        builder.endObject();
    }
}

@override
public String toString() {
return Strings.toString(this, true, true);
}
}
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*/
package org.elasticsearch.license;

import org.elasticsearch.action.ActionRequestBuilder;
import org.elasticsearch.client.ElasticsearchClient;

class PostStartTrialRequestBuilder extends ActionRequestBuilder<PostStartTrialRequest,
PostStartTrialResponse, PostStartTrialRequestBuilder> {
    PostStartTrialRequestBuilder(ElasticsearchClient client, PostStartTrialAction action) {
        super(client, action, new PostStartTrialRequest());
    }

    public PostStartTrialRequestBuilder setAcknowledge(boolean acknowledge) {
        request.acknowledge(acknowledge);
        return this;
    }
}

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* you may not use this file except in compliance with the Elastic License.
*/
package org.elasticsearch.license;

import org.elasticsearch.ElasticsearchException;
import org.elasticsearch.action.ActionListener;
import org.elasticsearch.action.support.ActionFilters;
import org.elasticsearch.action.support.master.TransportMasterNodeAction;
import org.elasticsearch.cluster.service.ClusterService;
import org.elasticsearch.cluster.ClusterState;
import org.elasticsearch.cluster.ack.ClusterStateUpdateResponse;
import org.elasticsearch.cluster.block.ClusterBlockException;
import org.elasticsearch.cluster.block.ClusterBlockLevel;
import org.elasticsearch.cluster.metadata.IndexNameExpressionResolver;
import org.elasticsearch.common.inject.Inject;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.threadpool.ThreadPool;
import org.elasticsearch.transport.TransportService;

public class TransportDeleteLicenseAction extends TransportMasterNodeAction<DeleteLicenseRequest,

DeleteLicenseResponse> {

    private final LicenseService licenseService;

    @Inject
    public TransportDeleteLicenseAction(Settings settings, TransportService transportService, ClusterService clusterService,
        LicenseService licenseService, ThreadPool threadPool, ActionFilters actionFilters,
        IndexNameExpressionResolver indexNameExpressionResolver) {
        super(settings, DeleteLicenseAction.NAME, transportService, clusterService, threadPool, actionFilters,
            indexNameExpressionResolver, DeleteLicenseRequest::new);
        this.licenseService = licenseService;
    }

    @Override
    protected String executor() {
        return ThreadPool.Names.MANAGEMENT;
    }

    @Override
    protected DeleteLicenseResponse newResponse() {
        return new DeleteLicenseResponse();
    }

    @Override
    protected ClusterBlockException checkBlock(DeleteLicenseRequest request, ClusterState state) {
        return state.blocks().globalBlockedException(ClusterBlockLevel.METADATA_WRITE);
    }

    @Override
    protected void masterOperation(final DeleteLicenseRequest request, ClusterState state, final ActionListener<DeleteLicenseResponse>
        listener) throws ElasticsearchException {
        licenseService.removeLicense(request, new ActionListener<ClusterStateUpdateResponse>() {
            @Override
            public void onResponse(ClusterStateUpdateResponse clusterStateUpdateResponse) {
                listener.onResponse(new DeleteLicenseResponse(clusterStateUpdateResponse.isAcknowledged()));
            }

            @Override
            public void onFailure(Exception e) {
                listener.onFailure(e);
            }
        });
    }

    /*
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     */
package org.elasticsearch.license;

import org.apache.logging.log4j.Logger;
import org.apache.logging.log4j.message.ParameterizedMessage;
import org.apache.logging.log4j.util.Supplier;
import org.apache.lucene.util.BytesRef;
import org.elasticsearch.common.bytes.BytesReference;
import org.elasticsearch.license.License.OperationMode;
import org.elasticsearch.watcher.FileChangesListener;
import org.elasticsearch.watcher.FileWatcher;
import org.elasticsearch.watcher.ResourceWatcherService;

import java.io.IOException;
import java.nio.charset.StandardCharsets;
import java.nio.file.Files;
import java.nio.file.Path;
import java.util.concurrent.atomic.AtomicBoolean;

/**
 * File based watcher for license [@link OperationMode]
 * Watches for changes in <code>licenseModePath</code>, use
 * [@link #getCurrentOperationMode()] to access the latest mode
 * In case of failure to read a valid operation mode from <code>licenseModePath</code>,
 * the operation mode will default to PLATINUM
 */
public final class OperationModeFileWatcher implements FileChangesListener {
    private final ResourceWatcherService resourceWatcherService;
    private final Path licenseModePath;
    private final AtomicBoolean initialized = new AtomicBoolean();
    private final OperationMode defaultOperationMode = OperationMode.PLATINUM;
    private volatile OperationMode currentOperationMode = defaultOperationMode;
    private final Logger logger;
    private final Runnable onChange;

    public OperationModeFileWatcher(ResourceWatcherService resourceWatcherService,
                                     Path licenseModePath, Logger logger, Runnable onChange) {
        this.resourceWatcherService = resourceWatcherService;
        this.licenseModePath = licenseModePath;
        this.logger = logger;
        this.onChange = onChange;
    }

    public void init() {
    }
if (initialized.compareAndSet(false, true)) {
    final FileWatcher watcher = new FileWatcher(licenseModePath);
    watcher.addListener(this);
    try {
        resourceWatcherService.add(watcher, ResourceWatcherService.Frequency.HIGH);
        if (Files.exists(licenseModePath)) {
            onChange(licenseModePath);
        }
    } catch (IOException e) {
        logger.error("couldn't initialize watching license mode file", e);
    }
}

/**
 * Returns the current operation mode based on license mode file.
 * Defaults to @link OperationMode#PLATINUM
 */
public OperationMode getCurrentOperationMode() {
    return currentOperationMode;
}

@Override
public void onFileInit(Path file) {
    onChange(file);
}

@Override
public void onFileCreated(Path file) {
    onChange(file);
}

@Override
public void onFileDeleted(Path file) {
    onChange(file);
}

@Override
public void onFileChanged(Path file) {
    onChange(file);
}

private synchronized void onChange(Path file) {
    if (file.equals(licenseModePath)) {
        OperationMode newOperationMode = defaultOperationMode;
        try {
            if (Files.exists(licenseModePath) && Files.isReadable(licenseModePath)) {
                // Do something with the new operation mode
            }
        } catch (IOException e) {
            logger.error("couldn't initialize watching license mode file", e);
        }
    }
}
final byte[] content;
try {
    content = Files.readAllBytes(licenseModePath);
} catch (IOException e) {
    logger.error(
            (Supplier<?>) () -> new ParameterizedMessage(
                    "couldn’t read operation mode from [{]}", licenseModePath.toAbsolutePath()), e);
    return;
}
// this UTF-8 conversion is much pickier than java String
final String operationMode = new BytesRef(content).utf8ToString();
try {
    newOperationMode = OperationMode.resolve(operationMode);
} catch (IllegalArgumentException e) {
    logger.error(
            (Supplier<?>) () -> new ParameterizedMessage(
                    "invalid operation mode in [{]}", licenseModePath.toAbsolutePath()), e);
    return;
}
} finally {
    // set this after the fact to prevent that we are jumping back and forth first setting to defaulI and then
    // actual op mode resetting it.
    this.currentOperationMode = newOperationMode;
}
onChange.run();
}
}
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*/
package org.elasticsearch.license;

import org.elasticsearch.action.ActionRequestBuilder;
import org.elasticsearch.client.ElasticsearchClient;

class GetTrialStatusRequestBuilder extends ActionRequestBuilder<GetTrialStatusRequest, GetTrialStatusResponse, GetTrialStatusRequestBuilder> { 
    GetTrialStatusRequestBuilder(ElasticsearchClient client, GetTrialStatusAction action) {
        super(client, action, new GetTrialStatusRequest());
    }
}

import org.elasticsearch.action.ActionRequestBuilder;
import org.elasticsearch.client.ElasticsearchClient;

class GetTrialStatusRequestBuilder extends ActionRequestBuilder<GetTrialStatusRequest, GetTrialStatusResponse, GetTrialStatusRequestBuilder> { 
    GetTrialStatusRequestBuilder(ElasticsearchClient client, GetTrialStatusAction action) {
        super(client, action, new GetTrialStatusRequest());
    }
}
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*/
package org.elasticsearch.license;

import org.elasticsearch.action.ActionRequestValidationException;
import org.elasticsearch.action.ValidateActions;
import org.elasticsearch.action.support.master.AcknowledgedRequest;
import org.elasticsearch.common.bytes.BytesReference;
import org.elasticsearch.common.io.stream.StreamInput;
import org.elasticsearch.common.io.stream.StreamOutput;
import org.elasticsearch.common.xcontent.XContentType;
import java.io.IOException;

public class PutLicenseRequest extends AcknowledgedRequest<PutLicenseRequest> {
    private License license;
    private boolean acknowledge = false;

    public PutLicenseRequest() {
    }

    @Override
    public ActionRequestValidationException validate() {
        return (license == null) ? ValidateActions.addValidationError("license is missing", null) : null;
    }

    /**
     * Parses license from json format to an instance of License
     * @param licenseDefinition licenses definition
     * @param XContentType the content type of the license
     */
    public PutLicenseRequest license(BytesReference licenseDefinition, XContentType xContentType) {
        try {
            return license(License.fromSource(licenseDefinition, xContentType));
        } catch (IOException e) {
            throw new IllegalArgumentException("failed to parse license source", e);
        }
    }

    public PutLicenseRequest license(License license) {
        this.license = license;
        return this;
    }
}
public License license() {
    return license;
}

public PutLicenseRequest acknowledge(boolean acknowledge) {
    this.acknowledge = acknowledge;
    return this;
}

public boolean acknowledged() {
    return acknowledge;
}

@Override
public void readFrom(StreamInput in) throws IOException {
    super.readFrom(in);
    license = License.readLicense(in);
    acknowledge = in.readBoolean();
}

@Override
public void writeTo(StreamOutput out) throws IOException {
    super.writeTo(out);
    license.writeTo(out);
    out.writeBoolean(acknowledge);
}

package org.elasticsearch.license;

import org.elasticsearch.common.bytes.BytesReference;
import org.elasticsearch.common.xcontent.LoggingDeprecationHandler;
import org.elasticsearch.common.xcontent.NamedXContentRegistry;
import org.elasticsearch.common.xcontent.ToXContent;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.common.xcontent.XContentFactory;
import org.elasticsearch.common.xcontent.XContentParser;
import java.io.IOException;
import java.nio.ByteBuffer;
import java.util.Base64;
import java.util.Collections;

import static org.elasticsearch.license.CryptUtils.decrypt;
import static org.elasticsearch.license.CryptUtils.encrypt;

public static License create(License.Builder specBuilder) {
    License spec = specBuilder
            .issuer("elasticsearch")
            .version(License.VERSION_CURRENT)
            .build();
    final String signature;
    try {
        XContentBuilder contentBuilder = XContentFactory.contentBuilder(XContentType.JSON);
        spec.toXContent(contentBuilder, new ToXContent.MapParams(Collections.singletonMap(License.LICENSE_SPEC_VIEW_MODE, "true")));
        byte[] encrypt = encrypt(BytesReference.toBytes(BytesReference.bytes(contentBuilder)));
        byte[] bytes = new byte[4 + 4 + encrypt.length];
        ByteBuffer byteBuffer = ByteBuffer.wrap(bytes);
        // always generate license version -VERSION_CURRENT
        byteBuffer.putInt(-License.VERSION_CURRENT)
                .putInt(encrypt.length)
                .put(encrypt);
        signature = Base64.getEncoder().encodeToString(bytes);
    } catch (IOException e) {
        throw new IllegalStateException(e);
    }
    return License.builder().fromLicenseSpec(spec, signature).build();
}

public static boolean verify(final License license) {
    try {
        byte[] signatureBytes = Base64.getDecoder().decode(license.signature());
        ByteBuffer byteBuffer = ByteBuffer.wrap(signatureBytes);
        int version = byteBuffer.getInt();
        int contentLen = byteBuffer.getInt();
        byte[] content = new byte[contentLen];
        byteBuffer.get(content);
        final License expectedLicense;
        try (XContentParser parser = XContentFactory.xContent(XContentType.JSON)
                .createParser(NamedXContentRegistry.EMPTY, LoggingDeprecationHandler.INSTANCE,
                decrypt(content))) {
            parser.nextToken();
            expectedLicense = License.builder().fromLicenseSpec(License.fromXContent(parser),
                license.signature(),version(-version).build());
        }
    } catch (IOException e) {
        throw new IllegalStateException(e);
    }
    return expectedLicense.equals(license);
}
public static boolean validSelfGeneratedType(String type) {
    return "basic".equals(type) || "trial".equals(type);
}

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public RestResponse buildResponse(PostStartTrialResponse response, XContentBuilder builder) throws Exception {
    PostStartTrialResponse.Status status = response.getStatus();
    builder.startObject();
    builder.field("acknowledged", startTrialRequest.isAcknowledged());
    if (status.isTrialStarted()) {
        builder.field("trial_was_started", true);
        builder.field("type", startTrialRequest.getType());
    } else {
        builder.field("trial_was_started", false);
        builder.field("error_message", status.getErrorMessage());
    }
    Map<String, String[]> acknowledgementMessages = response.getAcknowledgementMessages();
    if (acknowledgementMessages.isEmpty() == false) {
        builder.startObject("acknowledge");
        builder.field("message", response.getAcknowledgementMessage());
        for (Map.Entry<String, String[]> entry : acknowledgementMessages.entrySet()) {
            builder.startArray(entry.getKey());
            for (String message : entry.getValue()) {
                builder.value(message);
            }
            builder.endArray();
        }
        builder.endObject();
    }
    builder.endObject();
    return new BytesRestResponse(status.getRestStatus(), builder);
}

@Override
public String getName() {
    return "xpack_upgrade_to_trial_action";
}

/*@Override
public String getName() {
    return "xpack_upgrade_to_trial_action";
}
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*/
package org.elasticsearch.license;

import org.elasticsearch.ElasticsearchException;
import org.elasticsearch.action.ActionListener;
import org.elasticsearch.action.support.ActionFilters;
import org.elasticsearch.action.support.master.TransportMasterNodeReadAction;
import org.elasticsearch.cluster.ClusterState;
import org.elasticsearch.cluster.block.ClusterBlockException;
import org.elasticsearch.cluster.block.ClusterBlockLevel;
import org.elasticsearch.cluster.metadata.IndexNameExpressionResolver;
import org.elasticsearch.cluster.service.ClusterService;
import org.elasticsearch.common.inject.Inject;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.threadpool.ThreadPool;
import org.elasticsearch.transport.TransportService;

public class TransportGetLicenseAction extends TransportMasterNodeReadAction<GetLicenseRequest,
GetLicenseResponse> {

private final LicenseService licenseService;

@Inject
public TransportGetLicenseAction(Settings settings, TransportService transportService, ClusterService
clusterService,
        LicenseService licenseService, ThreadPool threadPool, ActionFilters actionFilters,
        IndexNameExpressionResolver indexNameExpressionResolver) {
    super(settings, GetLicenseAction.NAME, transportService, clusterService, threadPool, actionFilters,
      indexNameExpressionResolver,
          GetLicenseRequest::new);
    this.licenseService = licenseService;
}

@Override
protected String executor() {
    return ThreadPool.Names.MANAGEMENT;
}

@Override
protected GetLicenseResponse newResponse() {
    return new GetLicenseResponse();
}

@Override
protected ClusterBlockException checkBlock(GetLicenseRequest request, ClusterState state) {
    return state.blocks().globalBlockedException(ClusterBlockLevel.METADATA_READ);
}

@Override
protected void masterOperation(final GetLicenseRequest request, ClusterState state,
    final ActionListener<GetLicenseResponse> listener) throws ElasticsearchException {
    listener.onResponse(new GetLicenseResponse(licenseService.getLicense()));
}
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 */

package org.elasticsearch.license;

import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.xcontent.ToXContent;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.rest.BytesRestResponse;
import org.elasticsearch.rest.RestController;
import org.elasticsearch.rest.RestRequest;
import org.elasticsearch.rest.RestResponse;
import org.elasticsearch.rest.action.RestBuilderListener;
import org.elasticsearch.xpack.core.XPackClient;
import org.elasticsearch.xpack.core.rest.XPackRestHandler;
import java.io.IOException;
import static org.elasticsearch.rest.RestRequest.Method.POST;

public class RestPostStartBasicLicense extends XPackRestHandler {

    RestPostStartBasicLicense(Settings settings, RestController controller) {
        super(settings);
        controller.registerHandler(POST, URI_BASE + "/license/start_basic", this);
    }

    @Override
    protected RestChannelConsumer doPrepareRequest(RestRequest request, XPackClient client) throws IOException {
        PostStartBasicRequest startBasicRequest = new PostStartBasicRequest();
        startBasicRequest.acknowledge(request.paramAsBoolean("acknowledge", false));
        startBasicRequest.timeout(request.paramAsTime("timeout", startBasicRequest.timeout()));
        startBasicRequest.masterNodeTimeout(request.paramAsTime("master_timeout",
            startBasicRequest.masterNodeTimeout()));
        return channel -> client.licensing().postStartBasic(startBasicRequest, new
            RestBuilderListener<PostStartBasicResponse>(channel) {
                @Override
                public RestResponse buildResponse(PostStartBasicResponse response, XContentBuilder builder) throws
                    Exception {
                    PostStartBasicResponse.Status status = response.getStatus();
                    response.toXContent(builder, ToXContent.EMPTY_PARAMS);
                    return new BytesRestResponse(status.getRestStatus(), builder);
                }
            });
    }
}
@Override
class License implements ToXContentObject {
    public String getName() {
        return "xpack_start_basic_action";
    }
}

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*/

package org.elasticsearch.license;

import java.io.IOException;
import java.io.InputStream;
import java.nio.ByteBuffer;
import java.util.ArrayList;
import java.util.Base64;
import java.util.Comparator;
import java.util.List;
import java.util.Locale;
import org.apache.lucene.util.CollectionUtil;
import org.elasticsearch.ElasticsearchException;
import org.elasticsearch.ElasticsearchParseException;
import org.elasticsearch.common.Strings;
import org.elasticsearch.common.bytes.BytesReference;
import org.elasticsearch.common.io.stream.StreamInput;
import org.elasticsearch.common.io.stream.StreamOutput;
import org.elasticsearch.common.xcontent.LoggingDeprecationHandler;
import org.elasticsearch.common.xcontent.NamedXContentRegistry;
import org.elasticsearch.common.xcontent.ToXContent;
import org.elasticsearch.common.xcontent.ToXContentObject;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.common.xcontent.XContentFactory;
import org.elasticsearch.common.xcontent.XContentType;

public class License implements ToXContentObject {
    public static final int VERSION_START = 1;
    public static final int VERSION_NO_FEATURE_TYPE = 2;
    public static final int VERSION_START_DATE = 3;
    public static final int VERSION_CURRENT = VERSION_START_DATE;

    /*
    * Data structure for license. Use { @link Builder} to build a license.
    * Provides serialization/deserialization & validation methods for license object
    */
    public class License implements ToXContentObject {
        public static final int VERSION_START = 1;
        public static final int VERSION_NO_FEATURE_TYPE = 2;
        public static final int VERSION_START_DATE = 3;
        public static final int VERSION_CURRENT = VERSION_START_DATE;
public static final String REST_VIEW_MODE = "rest_view";

public static final String LICENSE_SPEC_VIEW_MODE = "license_spec_view";

public static final String LICENSE_VERSION_MODE = "license_version";

private final int version;
private final String uid;
private final String issuer;
private final String issuedTo;
private final long issueDate;
private final String type;
private final String subscriptionType;
private final String feature;
private final String signature;
private final long expiryDate;
private final long startDate;
private final int maxNodes;
private final OperationMode operationMode;

/**
 * Decouples operation mode of a license from the license type value.
 * <p>
 * Note: The mode indicates features that should be made available, but it does not indicate whether the license is active!
 * <p>
 * The id byte is used for ordering operation modes (used for merging license md in tribe node)
 */
public enum OperationMode {
    MISSING((byte) 0),
    TRIAL((byte) 1),
    BASIC((byte) 2),
    STANDARD((byte) 3),
GOLD((byte) 4),
PLATINUM((byte) 5);

private final byte id;

OperationMode(byte id) {
    this.id = id;
}

/** Returns non-zero positive number when <code>opMode1</code> is greater than <code>opMode2</code> */
public static int compare(OperationMode opMode1, OperationMode opMode2) {
    return Integer.compare(opMode1.id, opMode2.id);
}

public static OperationMode resolve(String type) {
    switch (type.toLowerCase(Locale.ROOT)) {
        case "missing":
            return MISSING;
        case "trial":
        case "none": // bwc for 1.x subscription_type field
        case "dev": // bwc for 1.x subscription_type field
        case "development": // bwc for 1.x subscription_type field
            return TRIAL;
        case "basic":
            return BASIC;
        case "standard":
            return STANDARD;
        case "silver":
        case "gold":
            return GOLD;
        case "platinum":
        case "cloud_internal":
        case "internal": // bwc for 1.x subscription_type field
            return PLATINUM;
        default:
            throw new IllegalArgumentException("unknown type [" + type + "]");
    }
}

private License(int version, String uid, String issuer, String issuedTo, long issueDate, String type,
    String subscriptionType, String feature, String signature, long expiryDate, int maxNodes, long startDate) {
    this.version = version;
    this.uid = uid;
    this.issuer = issuer;
    this.issuedTo = issuedTo;
this.issueDate = issueDate;
this.type = type;
this.subscriptionType = subscriptionType;
this.feature = feature;
this.signature = signature;
// We will validate that only a basic license can have the
BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS
// in the validate() method.
if (expiryDate == -1) {
    this.expiryDate = LicenseService.BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS;
} else {
    this.expiryDate = expiryDate;
}
this.maxNodes = maxNodes;
this.startDate = startDate;
if (version == VERSION_START) {
    // in 1.x: the acceptable values for 'subscription_type': none | dev | silver | gold | platinum
    this.operationMode = OperationMode.resolve(subscriptionType);
} else {
    // in 2.x: the acceptable values for 'type': trial | basic | silver | dev | gold | platinum
    this.operationMode = OperationMode.resolve(type);
}
validate();
}

/**
 * @return version of the license
 */
public int version() {
    return version;
}

/**
 * @return a unique identifier for a license
 */
public String uid() {
    return uid;
}

/**
 * @return type of the license [trial, subscription, internal]
 */
public String type() {
    return type;
}

/**
 * @return the issueDate in milliseconds
 */
public long issueDate() {
    return issueDate;
}

/**
 * @return the startDate in milliseconds
 */
public long startDate() {
    return startDate;
}

/**
 * @return the expiry date in milliseconds
 */
public long expiryDate() {
    return expiryDate;
}

/**
 * @return the maximum number of nodes this license has been issued for
 */
public int maxNodes() {
    return maxNodes;
}

/**
 * @return a string representing the entity this licenses has been issued to
 */
public String issuedTo() {
    return issuedTo;
}

/**
 * @return a string representing the entity responsible for issuing this license (internal)
 */
public String issuer() {
    return issuer;
}

/**
 * @return a string representing the signature of the license used for license verification
 */
public String signature() {
    return signature;
}
* @return the operation mode of the license as computed from the license type or from
* the license mode file
*
public OperationMode operationMode() {
    synchronized (this) {
        if (canReadOperationModeFromFile() && operationModeFileWatcher != null) {
            return operationModeFileWatcher.getCurrentOperationMode();
        }
    }
    return operationMode;
}

private boolean canReadOperationModeFromFile() {
    return type.equals("cloud_internal");
}

private volatile OperationModeFileWatcher operationModeFileWatcher;

/**
 * Sets the operation mode file watcher for the license and initializes the
 * file watcher when the license type allows to override operation mode from file
 */
public synchronized void setOperationModeFileWatcher(final OperationModeFileWatcher
    operationModeFileWatcher) {
    this.operationModeFileWatcher = operationModeFileWatcher;
    if (canReadOperationModeFromFile()) {
        this.operationModeFileWatcher.init();
    }
}

/**
 * Removes operation mode file watcher, so unused license objects can be gc'ed
 */
public synchronized void removeOperationModeFileWatcher() {
    this.operationModeFileWatcher = null;
}

/**
 * @return the current license's status
 */
public Status status() {
    long now = System.currentTimeMillis();
    if (issueDate > now) {
        return Status.INVALID;
    } else if (expiryDate < now) {
        return Status.EXPIRED;
    }
    return Status.ACTIVE;
private void validate() {
    if (issuer == null) {
        throw new IllegalStateException("issuer can not be null");
    } else if (issuedTo == null) {
        throw new IllegalStateException("issuedTo can not be null");
    } else if (issueDate == -1) {
        throw new IllegalStateException("issueDate has to be set");
    } else if (type == null) {
        throw new IllegalStateException("type can not be null");
    } else if (subscriptionType == null && version == VERSION_START) {
        throw new IllegalStateException("subscriptionType can not be null");
    } else if (uid == null) {
        throw new IllegalStateException("uid can not be null");
    } else if (feature == null && version == VERSION_START) {
        throw new IllegalStateException("feature can not be null");
    } else if (maxNodes == -1) {
        throw new IllegalStateException("maxNodes has to be set");
    } else if (expiryDate == -1) {
        throw new IllegalStateException("expiryDate has to be set");
    } else if (expiryDate == LicenseService.BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS
        && "basic".equals(type) == false) {
        throw new IllegalStateException("only basic licenses are allowed to have no expiration");
    }
}

public static License readLicense(StreamInput in) throws IOException {
    int version = in.readVInt(); // Version for future extensibility
    if (version > VERSION_CURRENT) {
        throw new ElasticsearchException("Unknown license version found, please upgrade all nodes to the latest
        elasticsearch-license" +
            " plugin");
    }
    Builder builder = builder();
    builder.version(version);
    builder.uid(in.readString());
    builder.type(in.readString());
    if (version == VERSION_START) {
        builder.subscriptionType(in.readString());
    }
    builder.issueDate(in.readLong());
    if (version == VERSION_START) {
        builder.feature(in.readString());
    }
    builder.expiryDate(in.readLong());
    builder.maxNodes(in.readInt());
    builder.issuedTo(in.readString());
builder.issuer(in.readString());
bUILDER.signature(in.readOptionalString());
if (version >= VERSION_START_DATE) {
    builder.startDate(in.readLong());
}
return builder.build();
}

public void writeTo(StreamOutput out) throws IOException {
    out.writeVInt(version);
    out.writeString(uid);
    out.writeString(type);
    if (version == VERSION_START) {
        out.writeString(subscriptionType);
    }
    out.writeLong(issueDate);
    if (version == VERSION_START) {
        out.writeString(feature);
    }
    out.writeLong(expiryDate);
    out.writeInt(maxNodes);
    out.writeString(issuedTo);
    out.writeString(issuer);
    out.writeOptionalString(signature);
    if (version >= VERSION_START_DATE) {
        out.writeLong(startDate);
    }
}

@Override
public String toString() {
    try {
        final XContentBuilder builder = XContentFactory.jsonBuilder();
        toXContent(builder, ToXContent.EMPTY_PARAMS);
        return Strings.toString(builder);
    } catch (IOException e) {
        return "";
    }
}

@Override
public XContentBuilder toXContent(XContentBuilder builder, Params params) throws IOException {
    builder.startObject();
toInnerXContent(builder, params);
    builder.endObject();
    return builder;
}
public XContentBuilder toInnerXContent(XContentBuilder builder, Params params) throws IOException {
    boolean licenseSpecMode = params.paramAsBoolean(LICENSE_SPEC_VIEW_MODE, false);
    boolean restViewMode = params.paramAsBoolean(REST_VIEW_MODE, false);
    boolean previouslyHumanReadable = builder.humanReadable();
    if (licenseSpecMode && restViewMode) {
        throw new IllegalArgumentException("can have either " + REST_VIEW_MODE + " or " + LICENSE_SPEC_VIEW_MODE);
    } else if (restViewMode) {
        if (!previouslyHumanReadable) {
            builder.humanReadable(true);
        }
    }
    final int version;
    if (params.param(LICENSE_VERSION_MODE) != null && restViewMode) {
        version = Integer.parseInt(params.param(LICENSE_VERSION_MODE));
    } else {
        version = this.version;
    }
    if (restViewMode) {
        builder.field(Fields.STATUS, status().label());
    }
    builder.field(Fields.UID, uid);
    builder.field(Fields.TYPE, type);
    if (version == VERSION_START) {
        builder.field(Fields.SUBSCRIPTION_TYPE, subscriptionType);
    }
    builder.timeField(Fields.ISSUE_DATE_IN_MILLIS, Fields.ISSUE_DATE, issueDate);
    if (version == VERSION_START) {
        builder.field(Fields.FEATURE, feature);
    }
    if (expiryDate != LicenseService.BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS) {
        builder.timeField(Fields.EXPIRY_DATE_IN_MILLIS, Fields.EXPIRY_DATE, expiryDate);
    }
    builder.field(Fields.MAX_NODES, maxNodes);
    builder.field(Fields.ISSUED_TO, issuedTo);
    builder.field(Fields.ISSUER, issuer);
    if (!licenseSpecMode && !restViewMode && signature != null) {
        builder.field(Fields.SIGNATURE, signature);
    }
    if (restViewMode) {
        builder.humanReadable(previouslyHumanReadable);
    }
    if (version >= VERSION_START_DATE) {
        builder.timeField(Fields.START_DATE_IN_MILLIS, Fields.START_DATE, startDate);
    }
    return builder;
}
public static License fromXContent(XContentParser parser) throws IOException {
    Builder builder = new Builder();
    XContentParser.Token token;
    while ((token = parser.nextToken()) != XContentParser.Token.END_OBJECT) {
        if (token == XContentParser.Token.FIELD_NAME) {
            String currentFieldName = parser.currentName();
            token = parser.nextToken();
            if (token.isValue()) {
                if (Fields.UID.equals(currentFieldName)) {
                    builder.uid(parser.text());
                } else if (Fields.TYPE.equals(currentFieldName)) {
                    builder.type(parser.text());
                } else if (Fields.SUBSCRIPTION_TYPE.equals(currentFieldName)) {
                    builder.subscriptionType(parser.text());
                } else if (Fields.ISSUE_DATE.equals(currentFieldName)) {
                    builder.issueDate(parseDate(parser, "issue", false));
                } else if (Fields.ISSUE_DATE_IN_MILLIS.equals(currentFieldName)) {
                    builder.issueDate(parser.longValue());
                } else if (Fields.FEATURE.equals(currentFieldName)) {
                    builder.feature(parser.text());
                } else if (Fields.EXPIRY_DATE.equals(currentFieldName)) {
                    builder.expiryDate(parseDate(parser, "expiration", true));
                } else if (Fields.EXPIRY_DATE_IN_MILLIS.equals(currentFieldName)) {
                    builder.expiryDate(parser.longValue());
                } else if (Fields.START_DATE.equals(currentFieldName)) {
                    builder.startDate(parseDate(parser, "start", false));
                } else if (Fields.START_DATE_IN_MILLIS.equals(currentFieldName)) {
                    builder.startDate(parser.longValue());
                } else if (Fields.MAX_NODES.equals(currentFieldName)) {
                    builder.maxNodes(parser.intValue());
                } else if (Fields.ISSUED_TO.equals(currentFieldName)) {
                    builder.issuedTo(parser.text());
                } else if (Fields.ISSUER.equals(currentFieldName)) {
                    builder.issuer(parser.text());
                } else if (Fields.SIGNATURE.equals(currentFieldName)) {
                    builder.signature(parser.text());
                } else if (Fields.VERSION.equals(currentFieldName)) {
                    builder.version(parser.intValue());
                }
            }
            // Ignore unknown elements - might be new version of license
        } else if (token == XContentParser.Token.START_ARRAY) {
            // It was probably created by newer version - ignoring
            parser.skipChildren();
        } else if (token == XContentParser.Token.START_OBJECT) {
            // It was probably created by newer version - ignoring
            parser.skipChildren();
        }
    }
}

if (builder.signature != null) {
    byte[] signatureBytes = Base64.getDecoder().decode(builder.signature);
    ByteBuffer byteBuffer = ByteBuffer.wrap(signatureBytes);
    int version = byteBuffer.getInt();
    // we take the absolute version, because negative versions
    // mean that the license was generated by the cluster (see TrialLicense)
    // and positive version means that the license was signed
    if (version < 0) {
        version *= -1;
    }
    if (version == 0) {
        throw new ElasticsearchException("malformed signature for license [" + builder.uid + "]");
    } else if (version > VERSION_CURRENT) {
        throw new ElasticsearchException("Unknown license version found, please upgrade all nodes to the latest
" +
        "elasticsearch-license plugin");
    }
    return builder.build();
}

/**
 * Returns true if the license was auto-generated (by license plugin),
 * false otherwise
 */
public static boolean isAutoGeneratedLicense(String signature) {
    try {
        byte[] signatureBytes = Base64.getDecoder().decode(signature);
        ByteBuffer byteBuffer = ByteBuffer.wrap(signatureBytes);
        return byteBuffer.getInt() < 0;
    } catch (IllegalArgumentException e) {
        throw new IllegalStateException(e);
    }
}

public static License fromSource(BytesReference bytes, XContentType xContentType) throws IOException {
    if (bytes == null || bytes.length() == 0) {
        throw new ElasticsearchParseException("failed to parse license - no content provided");
    }
    if (xContentType == null) {
        throw new ElasticsearchParseException("failed to parse license - no content-type provided");
    }
    return builder.build();
}
try (InputStream byteStream = bytes.streamInput();
    XContentParser parser = xContentType.xContent()
        .createParser(NamedXContentRegistry.EMPTY, LoggingDeprecationHandler.INSTANCE, byteStream))
{
    License license = null;
    if (parser.nextToken() == XContentParser.Token.START_OBJECT) {
        if (parser.nextToken() == XContentParser.Token.FIELD_NAME) {
            String currentFieldName = parser.currentName();
            if (Fields.LICENSES.equals(currentFieldName)) {
                final List<License> pre20Licenses = new ArrayList<>();
                if (parser.nextToken() == XContentParser.Token.START_ARRAY) {
                    while (parser.nextToken() != XContentParser.Token.END_ARRAY) {
                        pre20Licenses.add(License.fromXContent(parser));
                    }
                    // take the latest issued unexpired license
                    CollectionUtil timSort(pre20Licenses, LATEST_ISSUE_DATE_FIRST);
                    long now = System.currentTimeMillis();
                    for (License oldLicense : pre20Licenses) {
                        if (oldLicense.expiryDate() > now) {
                            license = oldLicense;
                            break;
                        }
                    }
                }
                if (license == null && !pre20Licenses.isEmpty()) {
                    license = pre20Licenses.get(0);
                }
                else {
                    throw new ElasticsearchParseException("failed to parse licenses expected an array of licenses");
                }
            } else if (Fields.LICENSE.equals(currentFieldName)) {
                license = License.fromXContent(parser);
            }
            // Ignore all other fields - might be created with new version
            else {
                throw new ElasticsearchParseException("failed to parse licenses expected field");
            }
        } else {
            throw new ElasticsearchParseException("failed to parse licenses expected start object");
        }
    } else {
        throw new ElasticsearchParseException("failed to parse licenses expected an array of licenses");
    }
    return license;
}

@Override
public boolean equals(Object o) {
    if (this == o) return true;
    if (o == null || getClass() != o.getClass()) return false;
    if (o == null || getClass() != o.getClass()) return false;
    if (o == null || getClass() != o.getClass()) return false;
    throw new ElasticsearchParseException("failed to parse licenses expected start object");
    return false;
}
License license = (License) o;

if (issueDate != license.issueDate) return false;
if (expiryDate != license.expiryDate) return false;
if (startDate!= license.startDate) return false;
if (maxNodes != license.maxNodes) return false;
if (version != license.version) return false;
if (uid != null ? !uid.equals(license.uid) : license.uid != null) return false;
if (issuer != null ? !issuer.equals(license.issuer) : license.issuer != null) return false;
if (issuedTo != null ? !issuedTo.equals(license.issuedTo) : license.issuedTo != null) return false;
if (type != null ? !type.equals(license.type) : license.type != null) return false;
if (subscriptionType != null ? !subscriptionType.equals(license.subscriptionType) : license.subscriptionType !=
null)
    return false;
if (feature != null ? !feature.equals(license.feature) : license.feature != null) return false;
return !(signature != null ? !signature.equals(license.signature) : license.signature != null);

@Override
public int hashCode() {
    int result = uid != null ? uid.hashCode() : 0;
    result = 31 * result + (issuer != null ? issuer.hashCode() : 0);
    result = 31 * result + (issuedTo != null ? issuedTo.hashCode() : 0);
    result = 31 * result + (int) (issueDate ^ (issueDate >>> 32));
    result = 31 * result + (type != null ? type.hashCode() : 0);
    result = 31 * result + (subscriptionType != null ? subscriptionType.hashCode() : 0);
    result = 31 * result + (feature != null ? feature.hashCode() : 0);
    result = 31 * result + (signature != null ? signature.hashCode() : 0);
    result = 31 * result + (int) (expiryDate ^ (expiryDate >>> 32));
    result = 31 * result + (int) (startDate ^ (startDate >>> 32));
    result = 31 * result + maxNodes;
    result = 31 * result + version;
    return result;
}

public static final class Fields {
    public static final String STATUS = "status";
    public static final String UID = "uid";
    public static final String TYPE = "type";
    public static final String SUBSCRIPTION_TYPE = "subscription_type";
    public static final String ISSUE_DATE_IN_MILLIS = "issue_date_in_millis";
    public static final String ISSUE_DATE = "issue_date";
    public static final String FEATURE = "feature";
    public static final String EXPIRY_DATE_IN_MILLIS = "expiry_date_in_millis";
    public static final String EXPIRY_DATE = "expiry_date";
    public static final String START_DATE_IN_MILLIS = "start_date_in_millis";
    public static final String START_DATE = "start_date";
public static final String MAX_NODES = "max_nodes";
public static final String ISSUED_TO = "issued_to";
public static final String ISSUER = "issuer";
public static final String VERSION = "version";
public static final String SIGNATURE = "signature";

public static final String LICENSES = "licenses";
public static final String LICENSE = "license";

private static long parseDate(XContentParser parser, String description, boolean endOfTheDay) throws IOException {
    if (parser.currentToken() == XContentParser.Token.VALUE_NUMBER) {
        return parser.longValue();
    } else {
        try {
            if (endOfTheDay) {
                return DateUtils.endOfTheDay(parser.text());
            } else {
                return DateUtils.beginningOfTheDay(parser.text());
            }
        } catch (IllegalArgumentException ex) {
            throw new ElasticsearchParseException("invalid " + description + " date format " + parser.text());
        }
    }
}

public static Builder builder() {
    return new Builder();
}

public static class Builder {
    private int version = License.VERSION_CURRENT;
    private String uid;
    private String issuer;
    private String issuedTo;
    private long issueDate = -1;
    private String type;
    private String subscriptionType;
    private String feature;
    private String signature;
    private long expiryDate = -1;
    private long startDate = -1;
    private int maxNodes = -1;

    public Builder uid(String uid) {
        this.uid = uid;
    }
}
return this; }

public Builder version(int version) {
    this.version = version;
    return this;
}

public Builder issuer(String issuer) {
    this.issuer = issuer;
    return this;
}

public Builder issuedTo(String issuedTo) {
    this.issuedTo = issuedTo;
    return this;
}

public Builder issueDate(long issueDate) {
    this.issueDate = issueDate;
    return this;
}

public Builder type(String type) {
    this.type = type;
    return this;
}

public Builder subscriptionType(String subscriptionType) {
    this.subscriptionType = subscriptionType;
    return this;
}

public Builder feature(String feature) {
    this.feature = feature;
    return this;
}

public Builder expiryDate(long expiryDate) {
    this.expiryDate = expiryDate;
    return this;
}

public Builder maxNodes(int maxNodes) {
    this.maxNodes = maxNodes;
    return this;
}
public Builder signature(String signature) {
    if (signature != null) {
        this.signature = signature;
    }
    return this;
}

public Builder startDate(long startDate) {
    this.startDate = startDate;
    return this;
}

public Builder fromLicenseSpec(License license, String signature) {
    return uid(license.uid())
        .version(license.version())
        .issuedTo(license.issuedTo())
        .issueDate(license.issueDate())
        .startDate(license.startDate())
        .type(license.type())
        .subscriptionType(license.subscriptionType)
        .feature(license.feature)
        .maxNodes(license.maxNodes())
        .expiryDate(licenseexpiryDate())
        .issuer(license.issuer())
        .signature(signature);
}

/**
 * Returns a builder that converts pre 2.0 licenses
 * to the new license format
 */

public Builder fromPre20LicenseSpec(License pre20License) {
    return uid(pre20License.uid())
        .issuedTo(pre20License.issuedTo())
        .issueDate(pre20License.issueDate())
        .maxNodes(pre20License.maxNodes())
        .expiryDate(pre20License.expiryDate());
}

public License build() {
    return new License(version, uid, issuer, issuedTo, issueDate, type,
            subscriptionType, feature, signature, expiryDate, maxNodes, startDate);
}

public Builder validate() {
    if (issuer == null) {
        throw new IllegalStateException("issuer can not be null");
    } else if (issuedTo == null) {
    }
throw new IllegalStateException("issuedTo can not be null");
} else if (issueDate == -1) {
    throw new IllegalStateException("issueDate has to be set");
} else if (type == null) {
    throw new IllegalStateException("type can not be null");
} else if (uid == null) {
    throw new IllegalStateException("uid can not be null");
} else if (signature == null) {
    throw new IllegalStateException("signature can not be null");
} else if (maxNodes == -1) {
    throw new IllegalStateException("maxNodes has to be set");
} else if (expiryDate == -1) {
    throw new IllegalStateException("expiryDate has to be set");
}
return this;
}

public enum Status {
    ACTIVE("active"),
    INVALID("invalid"),
    EXPIRED("expired");

    private final String label;

    Status(String label) {
        this.label = label;
    }

    public String label() {
        return label;
    }

    public void writeTo(StreamOutput out) throws IOException {
        out.writeString(label);
    }

    public static Status readFrom(StreamInput in) throws IOException {
        String value = in.readString();
        switch (value) {
            case "active":
                return ACTIVE;
            case "invalid":
                return INVALID;
            case "expired":
                return EXPIRED;
            default:
                return null;
        }
    }
}
throw new IllegalArgumentException("unknown license status [" + value + "]");
}
}

/**
 * Returns <code>true</code> iff the license is a production license
 */
public boolean isProductionLicense() {
    switch (operationMode()) {
        case MISSING:
        case TRIAL:
        case BASIC:
            return false;
        case STANDARD:
        case GOLD:
        case PLATINUM:
            return true;
        default:
            throw new AssertionError("unknown operation mode: "+operationMode());
    }
}
}

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 * or more contributor license agreements. Licensed under the Elastic License;
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 */
package org.elasticsearch.license;

import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.rest.RestController;
import org.elasticsearch.rest.RestRequest;
import org.elasticsearch.rest.action.RestToXContentListener;
import org.elasticsearch.xpack.core.XPackClient;
import org.elasticsearch.xpack.core.rest.XPackRestHandler;
import java.io.IOException;
import static org.elasticsearch.rest.RestRequest.Method.POST;
import static org.elasticsearch.rest.RestRequest.Method.PUT;

public class RestPutLicenseAction extends XPackRestHandler {
    public RestPutLicenseAction(Settings settings, RestController controller) {
        super(settings);
        // @deprecated Remove deprecations in 6.0
        controller.registerWithDeprecatedHandler(POST, URI_BASE + "/license", this,
POST, "/_license", deprecationLogger);
controller.registerWithDeprecatedHandler(PUT, URI_BASE + "/license", this,
PUT, "/_license", deprecationLogger);

// Remove _licenses support entirely in 6.0
controller.registerAsDeprecatedHandler(POST, "/_licenses", this,
"[POST /_licenses] is deprecated! Use " +
"[POST /_xpack/license] instead.",
deprecationLogger);
controller.registerAsDeprecatedHandler(PUT, "/_licenses", this,
"[PUT /_licenses] is deprecated! Use " +
"[PUT /_xpack/license] instead.",
deprecationLogger);
}

@Override
public String getName() {
    return "xpack_put_license_action";
}

@Override
public RestChannelConsumer doPrepareRequest(final RestRequest request, final XPackClient client) throws IOException {
    if (request.hasContent() == false) {
        throw new IllegalArgumentException("The license must be provided in the request body");
    }
    PutLicenseRequest putLicenseRequest = new PutLicenseRequest();
    putLicenseRequest.license(request.content(), request.getXContentType());
    putLicenseRequest.acknowledge(request.paramAsBoolean("acknowledge", false));
    putLicenseRequest.timeout(request.paramAsTime("timeout", putLicenseRequest.timeout()));
    putLicenseRequest.masterNodeTimeout(request.paramAsTime("master_timeout",
putLicenseRequest.masterNodeTimeout()));

    if ("basic".equals(putLicenseRequest.license().type())) {
        throw new IllegalArgumentException("Installing basic licenses is no longer allowed. Use the POST " +
"/_xpack/license/start_basic API to install a basic license that does not expire.");
    }

    return channel -> client.es().admin().cluster().execute(PutLicenseAction.INSTANCE, putLicenseRequest,
new RestToXContentListener<>(channel));
}
import org.elasticsearch.action.ActionResponse;
import org.elasticsearch.common.io.stream.StreamInput;
import org.elasticsearch.common.io.stream.StreamOutput;

import java.io.IOException;

public class GetLicenseResponse extends ActionResponse {

    private License license;

    GetLicenseResponse() {
    }

    GetLicenseResponse(License license) {
        this.license = license;
    }

    public License license() {
        return license;
    }

    @Override
    public void readFrom(StreamInput in) throws IOException {
        super.readFrom(in);
        if (in.readBoolean()) {
            license = License.readLicense(in);
        }
    }

    @Override
    public void writeTo(StreamOutput out) throws IOException {
        super.writeTo(out);
        if (license == null) {
            out.writeBoolean(false);
        } else {
            out.writeBoolean(true);
            license.writeTo(out);
        }
    }

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     */
    package org.elasticsearch.license;
import org.elasticsearch.action.support.master.MasterNodeReadOperationRequestBuilder;
import org.elasticsearch.client.ElasticsearchClient;

public class GetLicenseRequestBuilder extends MasterNodeReadOperationRequestBuilder<GetLicenseRequest,
GetLicenseResponse,
GetLicenseRequestBuilder> {

public GetLicenseRequestBuilder(ElasticsearchClient client) {
    this(client, GetLicenseAction.INSTANCE);
}

/**
 * Creates new get licenses request builder
 * @param client elasticsearch client
 */
public GetLicenseRequestBuilder(ElasticsearchClient client, GetLicenseAction action) {
    super(client, action, new GetLicenseRequest());
}

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 */
package org.elasticsearch.license;

import org.elasticsearch.action.ActionRequestValidationException;
import org.elasticsearch.action.support.master.MasterNodeReadRequest;

public class GetLicenseRequest extends MasterNodeReadRequest<GetLicenseRequest> {

public GetLicenseRequest() {
}

@Override
public ActionRequestValidationException validate() {
    return null;
}
}

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 */
package org.elasticsearch.license;
import org.elasticsearch.action.ActionListener;
import org.elasticsearch.action.support.ActionFilters;
import org.elasticsearch.action.support.master.TransportMasterNodeAction;
import org.elasticsearch.cluster.ClusterState;
import org.elasticsearch.cluster.block.ClusterBlockException;
import org.elasticsearch.cluster.block.ClusterBlockLevel;
import org.elasticsearch.cluster.metadata.IndexNameExpressionResolver;
import org.elasticsearch.cluster.service.ClusterService;
import org.elasticsearch.common.inject.Inject;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.threadpool.ThreadPool;
import org.elasticsearch.transport.TransportService;

public class TransportPostStartTrialAction extends TransportMasterNodeAction<PostStartTrialRequest,
PostStartTrialResponse> {

    private final LicenseService licenseService;

    @Inject
    public TransportPostStartTrialAction(Settings settings, TransportService transportService, ClusterService
clusterService,
        LicenseService licenseService, ThreadPool threadPool, ActionFilters actionFilters,
        IndexNameExpressionResolver indexNameExpressionResolver) {  
        super(settings, PostStartTrialAction.NAME, transportService, clusterService, threadPool, actionFilters,
        indexNameExpressionResolver, PostStartTrialRequest::new);  
        this.licenseService = licenseService;
    }

    @Override
    protected String executor() {
        return ThreadPool.Names.SAME;
    }

    @Override
    protected PostStartTrialResponse newResponse() {
        return new PostStartTrialResponse();
    }

    @Override
    protected void masterOperation(PostStartTrialRequest request, ClusterState state,
        ActionListener<PostStartTrialResponse> listener) throws Exception {
        licenseService.startTrialLicense(request, listener);
    }

    @Override
    protected ClusterBlockException checkBlock(PostStartTrialRequest request, ClusterState state) {
        return state.blocks().globalBlockedException(ClusterBlockLevel.METADATA_WRITE);
    }
}
}
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*/
package org.elasticsearch.license;
import org.elasticsearch.common.inject.Inject;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.xcontent.ToXContent;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.rest.BytesRestResponse;
import org.elasticsearch.rest.RestController;
import org.elasticsearch.rest.RestRequest;
import org.elasticsearch.rest.RestResponse;
import org.elasticsearch.rest.action.RestBuilderListener;
import org.elasticsearch.xpack.core.XPackClient;
import org.elasticsearch.xpack.core.rest.XPackRestHandler;
import java.io.IOException;
import java.util.HashMap;
import java.util.Map;
import static org.elasticsearch.rest.RestRequest.Method.GET;
import static org.elasticsearch.rest.RestStatus.NOT_FOUND;
import static org.elasticsearch.rest.RestStatus.OK;
public class RestGetLicenseAction extends XPackRestHandler {
@Inject
public RestGetLicenseAction(Settings settings, RestController controller) {
super(settings);
// @deprecated Remove deprecations in 6.0
controller.registerWithDeprecatedHandler(GET, URI_BASE + "/license", this,
GET, "/_license", deprecationLogger);
// Remove _licenses support entirely in 6.0
controller.registerAsDeprecatedHandler(GET, "/_licenses", this,
"[GET /_licenses] is deprecated! Use " +
"[GET /_xpack/license] instead.",
deprecationLogger);
}
@Override
public String getName() {
return "xpack_get_license_action";

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There will be only one license displayed per feature, the selected license will have the latest expiry_date
out of all other licenses for the feature.

The licenses are sorted by latest issue_date

*/

@Override
public RestChannelConsumer doPrepareRequest(final RestRequest request, final XPackClient client) throws
IOException {
    final Map<String, String> overrideParams = new HashMap<>((2);
    overrideParams.put(License.REST_VIEW_MODE, "true");
    overrideParams.put(License.LICENSE_VERSION_MODE, String.valueOf(License.VERSION_CURRENT));
    final ToXContent.Params params = new ToXContent.DelegatingMapParams(overrideParams, request);
    GetLicenseRequest getLicenseRequest = new GetLicenseRequest();
    getLicenseRequest.local(request.paramAsBoolean("local", getLicenseRequest.local()));
    return channel -> client.es().admin().cluster().execute(GetLicenseAction.INSTANCE, getLicenseRequest,
                   new RestBuilderListener<GetLicenseResponse>(channel) {
                        @Override
                        public RestResponse buildResponse(GetLicenseResponse response, XContentBuilder builder) throws
                        Exception {
                            // Default to pretty printing, but allow ?pretty=false to disable
                            if (!request.hasParam("pretty")) {
                                builder.prettyPrint().lfAtEnd();
                            }
                            boolean hasLicense = response.license() != null;
                            builder.startObject();
                            if (hasLicense) {
                                builder.startObject("license");
                                response.license().toInnerXContent(builder, params);
                                builder.endObject();
                            }
                            builder.endObject();
                            return new BytesRestResponse(hasLicense ? OK : NOT_FOUND, builder);
                        }
                    });

    @Override
    public RestResponse buildResponse(GetLicenseResponse response, XContentBuilder builder) throws
Exception {
        // Default to pretty printing, but allow ?pretty=false to disable
        if (!request.hasParam("pretty")) {
            builder.prettyPrint().lfAtEnd();
        }
        boolean hasLicense = response.license() != null;
        builder.startObject();
        if (hasLicense) {
            builder.startObject("license");
            response.license().toInnerXContent(builder, params);
            builder.endObject();
        }
        builder.endObject();
        return new BytesRestResponse(hasLicense ? OK : NOT_FOUND, builder);
    }
};

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*/

package org.elasticsearch.license;

import org.elasticsearch.action.support.master.AcknowledgedRequestBuilder;

import org.elasticsearch.license;
import org.elasticsearch.client.ElasticsearchClient;
import org.elasticsearch.common.bytes.BytesReference;
import org.elasticsearch.common.xcontent.XContentType;

/**
 * Register license request builder
 */
public class PutLicenseRequestBuilder extends AcknowledgedRequestBuilder<PutLicenseRequest,
PutLicenseResponse, PutLicenseRequestBuilder> {

public PutLicenseRequestBuilder(ElasticsearchClient client) {
    this(client, PutLicenseAction.INSTANCE);
}

/**
 * Constructs register license request
 *
 * @param client elasticsearch client
 */
public PutLicenseRequestBuilder(ElasticsearchClient client, PutLicenseAction action) {
    super(client, action, new PutLicenseRequest());
}

/**
 * Sets the license
 *
 * @param license license
 * @return this builder
 */
public PutLicenseRequestBuilder setLicense(License license) {
    request.license(license);
    return this;
}

public PutLicenseRequestBuilder setLicense(BytesReference licenseSource, XContentType xContentType) {
    request.license(licenseSource, xContentType);
    return this;
}

public PutLicenseRequestBuilder setAcknowledge(boolean acknowledge) {
    request.acknowledge(acknowledge);
    return this;
}

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 */
package org.elasticsearch.license;

import org.elasticsearch.action.Action;
import org.elasticsearch.client.ElasticsearchClient;

public class GetBasicStatusAction extends Action<GetBasicStatusRequest, GetBasicStatusResponse,
GetBasicStatusRequestBuilder> {

    public static final GetBasicStatusAction INSTANCE = new GetBasicStatusAction();
    public static final String NAME = "cluster:admin/xpack/license/basic_status";

    private GetBasicStatusAction() {
        super(NAME);
    }

    @Override
    public GetBasicStatusRequestBuilder newRequestBuilder(ElasticsearchClient client) {
        return new GetBasicStatusRequestBuilder(client, this);
    }

    @Override
    public GetBasicStatusResponse newResponse() {
        return new GetBasicStatusResponse();
    }
}

package org.elasticsearch.license;

import org.elasticsearch.ElasticsearchSecurityException;
import org.elasticsearch.rest.RestStatus;

public class LicenseUtils {

    public static final String EXPIRED_FEATURE_METADATA = "es.license.expired.feature";

    public static ElasticsearchSecurityException newComplianceException(String feature) {

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        */

        import org.elasticsearch.ElasticsearchSecurityException;
        import org.elasticsearch.rest.RestStatus;

        public class LicenseUtils {

            public static final String EXPIRED_FEATURE_METADATA = "es.license.expired.feature";

            /**
             * Exception to be thrown when a feature action requires a valid license, but license
             * has expired
             *<code>feature</code> accessible through [ @link #EXPIRED_FEATURE_METADATA ] in the
             * exception's rest header
             */
            public static ElasticsearchSecurityException newComplianceException(String feature) {   }
ElasticsearchSecurityException e = new ElasticsearchSecurityException("current license is non-compliant for
[[]]");
    RestStatus.FORBIDDEN, feature);
e.addMetadata(EXPIRED_FEATURE_METADATA, feature);
    return e;
}

/**
 * Checks if a given {@link ElasticsearchSecurityException} refers to a feature that
 * requires a valid license, but the license has expired.
 */
public static boolean isLicenseExpiredException(ElasticsearchSecurityException exception) {
    return (exception != null) && (exception.getMetadata(EXPIRED_FEATURE_METADATA) != null);
}

public static boolean licenseNeedsExtended(License license) {
    return "basic".equals(license.type()) && license.expiryDate() != LicenseService.BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS;
}
 */
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 */
package org.elasticsearch.license;

import org.elasticsearch.action.ActionRequest;
import org.elasticsearch.action.ActionResponse;
import org.elasticsearch.cluster.NamedDiff;
import org.elasticsearch.cluster.metadata.IndexNameExpressionResolver;
import org.elasticsearch.cluster.metadata.MetaData;
import org.elasticsearch.cluster.node.DiscoveryNodes;
import org.elasticsearch.common.ParseField;
import org.elasticsearch.common.io.stream.NamedWriteableRegistry;
import org.elasticsearch.common.settings.ClusterSettings;
import org.elasticsearch.common.settings.IndexScopedSettings;
import org.elasticsearch.common.settings.Setting;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.settings.SettingsFilter;
import org.elasticsearch.common.xcontent.NamedXContentRegistry;
import org.elasticsearch.plugins.ActionPlugin;
import org.elasticsearch.rest.RestController;
import org.elasticsearch.rest.RestHandler;
import java.util.ArrayList;
import java.util.Arrays;
import java.util.Collections;
import java.util.List;
import java.util.function.Supplier;

import static org.elasticsearch.xpack.core.XPackClientActionPlugin.isTribeNode;
import static org.elasticsearch.xpack.core.XPackPlugin.transportClientMode;

public class Licensing implements ActionPlugin {

    public static final String NAME = "license";
    protected final Settings settings;
    private final boolean isTransportClient;
    private final boolean isTribeNode;

    // Until this is moved out to its own plugin (its currently in XPackPlugin.java, we need to make sure that any edits to this file
    // are also carried out in XPackClientPlugin.java
    public List<NamedWriteableRegistry.Entry> getNamedWriteables() {
        List<NamedWriteableRegistry.Entry> entries = new ArrayList<>();
        entries.add(new NamedWriteableRegistry.Entry(MetaData.Custom.class, LicensesMetaData.TYPE,
            LicensesMetaData::new));
        entries.add(new NamedWriteableRegistry.Entry(NamedDiff.class, LicensesMetaData.TYPE,
            LicensesMetaData::readDiffFrom));
        return entries;
    }

    // Until this is moved out to its own plugin (its currently in XPackPlugin.java, we need to make sure that any edits to this file
    // are also carried out in XPackClientPlugin.java
    public List<NamedXContentRegistry.Entry> getNamedXContent() {
        List<NamedXContentRegistry.Entry> entries = new ArrayList<>();
        // Metadata
        entries.add(new NamedXContentRegistry.Entry(MetaData.Custom.class, new ParseField(LicensesMetaData.TYPE),
            LicensesMetaData::fromXContent));
        return entries;
    }

    public Licensing(Settings settings) {
        this.settings = settings;
        isTransportClient = transportClientMode(settings);
        isTribeNode = isTribeNode(settings);
    }

    @Override
    public List<ActionHandler<? extends ActionRequest, ? extends ActionResponse>> getActions() {
        if (isTribeNode) {
            return Collections.singletonList(new ActionHandler<>(GetLicenseAction.INSTANCE,
                TransportGetLicenseAction.class));
        }
    }
}
return Arrays.asList(new ActionHandler<>(PutLicenseAction.INSTANCE, TransportPutLicenseAction.class),
new ActionHandler<>(GetLicenseAction.INSTANCE, TransportGetLicenseAction.class),
new ActionHandler<>(DeleteLicenseAction.INSTANCE, TransportDeleteLicenseAction.class),
new ActionHandler<>(PostStartTrialAction.INSTANCE, TransportPostStartTrialAction.class),
new ActionHandler<>(GetTrialStatusAction.INSTANCE, TransportGetTrialStatusAction.class),
new ActionHandler<>(PostStartBasicAction.INSTANCE, TransportPostStartBasicAction.class),
new ActionHandler<>(GetBasicStatusAction.INSTANCE, TransportGetBasicStatusAction.class));

@Override
public List<RestHandler> getRestHandlers(Settings settings, RestController restController, ClusterSettings
clusterSettings,
       IndexScopedSettings indexScopedSettings, SettingsFilter settingsFilter, IndexNameExpressionResolver
indexNameExpressionResolver,
       Supplier<DiscoveryNodes> nodesInCluster) {
List<RestHandler> handlers = new ArrayList<>();
handlers.add(new RestGetLicenseAction(settings, restController));
if (false == isTribeNode) {
    handlers.add(new RestPutLicenseAction(settings, restController));
    handlers.add(new RestDeleteLicenseAction(settings, restController));
    handlers.add(new RestGetTrialStatus(settings, restController));
    handlers.add(new RestGetBasicStatus(settings, restController));
    handlers.add(new RestPostStartTrialLicense(settings, restController));
    handlers.add(new RestPostStartBasicLicense(settings, restController));
}
return handlers;

// Until this is moved out to its own plugin (its currently in XPackPlugin.java, we need to make sure that any edits
to this file
// are also carried out in XPackClientPlugin.java
public List<Setting<?>> getSettings() {
    // TODO convert this wildcard to a real setting
    return Collections.singletonList(Setting.groupSetting("license.", Setting.Property.NodeScope));
}
*/

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 */
package org.elasticsearch.license;

import javax.crypto.BadPaddingException;
import javax.crypto.Cipher;
import javax.crypto.IllegalArgumentException;
import javax.crypto.MalformedException;
import javax.crypto.NoSuchPaddingException;
import javax.crypto.SecretKey;
import javax.crypto.SecretKeyFactory;
import javax.crypto.spec.PBEKeySpec;
import javax.crypto.spec.SecretKeySpec;
import java.nio.charset.StandardCharsets;
import java.security.InvalidKeyException;
import java.security.KeyFactory;
import java.security.MessageDigest;
import java.security.NoSuchAlgorithmException;
import java.security.PrivateKey;
import java.security.PublicKey;
import java.security.SecureRandom;
import java.security.spec.InvalidKeySpecException;
import java.security.spec.PKCS8EncodedKeySpec;
import java.security.spec.X509EncodedKeySpec;
import java.util.Base64;

public class CryptUtils {
    private static final int minimumPadding = 20;
    private static final byte[] salt = {
        (byte) 0xA9, (byte) 0xA2, (byte) 0xB5, (byte) 0xDE,
        (byte) 0x2A, (byte) 0x8A, (byte) 0x9A, (byte) 0xE6
    };
    private static final int iterationCount = 1024;
    private static final int aesKeyLength = 128;
    private static final String keyAlgorithm = "RSA";
    private static final String passHashAlgorithm = "SHA-512";
    private static final String DEFAULT_PASS_PHRASE = "elasticsearch-license";

    private static final SecureRandom random = new SecureRandom();

    /**
     * Read encrypted private key file content with default pass phrase
     */
    public static PrivateKey readEncryptedPrivateKey(byte[] fileContents) {
        try {
            return readEncryptedPrivateKey(fileContents, hashPassPhrase(DEFAULT_PASS_PHRASE));
        } catch (NoSuchAlgorithmException e) {
            throw new IllegalStateException(e);
        }
    }

    /**
     * Read encrypted public key file content with default pass phrase
     */
    public static PublicKey readEncryptedPublicKey(byte[] fileContents) {
    }
try {
    return readEncryptedPublicKey(fileContents, hashPassPhrase(DEFAULT_PASS_PHRASE));
} catch (NoSuchAlgorithmException e) {
    throw new IllegalStateException(e);
}

/**
* Returns encrypted public key file content with default pass phrase
*/
public static byte[] writeEncryptedPublicKey(PublicKey publicKey) {
    try {
        return writeEncryptedPublicKey(publicKey, hashPassPhrase(DEFAULT_PASS_PHRASE));
    } catch (NoSuchAlgorithmException e) {
        throw new IllegalStateException(e);
    }
}

/**
* Returns encrypted private key file content with default pass phrase
*/
public static byte[] writeEncryptedPrivateKey(PrivateKey privateKey) {
    try {
        return writeEncryptedPrivateKey(privateKey, hashPassPhrase(DEFAULT_PASS_PHRASE));
    } catch (NoSuchAlgorithmException e) {
        throw new IllegalStateException(e);
    }
}

/**
* Read encrypted private key file content with provided <code>passPhrase</code>
*/
public static PrivateKey readEncryptedPrivateKey(byte[] fileContents, char[] passPhrase) {
    PKCS8EncodedKeySpec privateKeySpec = new PKCS8EncodedKeySpec(decrypt(fileContents, passPhrase));
    try {
        return KeyFactory.getInstance(keyAlgorithm).generatePrivate(privateKeySpec);
    } catch (NoSuchAlgorithmException | InvalidKeySpecException e) {
        throw new IllegalStateException(e);
    }
}

/**
* Read encrypted public key file content with provided <code>passPhrase</code>
*/
public static PublicKey readEncryptedPublicKey(byte[] fileContents, char[] passPhrase) {
    X509EncodedKeySpec publicKeySpec = new X509EncodedKeySpec(decrypt(fileContents, passPhrase));
    try {
        return KeyFactory.getInstance(CryptUtils.keyAlgorithm).generatePublic(publicKeySpec);
    } catch (NoSuchAlgorithmException | InvalidKeySpecException e) {
        throw new IllegalStateException(e);
    }
}
** Returns encrypted public key file content with provided <code>passPhrase</code>
*/
public static byte[] writeEncryptedPublicKey(PublicKey publicKey, char[] passPhrase) {
    X509EncodedKeySpec encodedKeySpec = new X509EncodedKeySpec(publicKey.getEncoded());
    return encrypt(encodedKeySpec.getEncoded(), passPhrase);
}

/**
 * Returns encrypted private key file content with provided <code>passPhrase</code>
 */
public static byte[] writeEncryptedPrivateKey(PrivateKey privateKey, char[] passPhrase) {
    PKCS8EncodedKeySpec encodedKeySpec = new PKCS8EncodedKeySpec(privateKey.getEncoded());
    return encrypt(encodedKeySpec.getEncoded(), passPhrase);
}

/**
 * Encrypts provided <code>data</code> with <code>DEFAULT_PASS_PHRASE</code>
 */
public static byte[] encrypt(byte[] data) {
    try {
        return encrypt(data, hashPassPhrase(DEFAULT_PASS_PHRASE));
    } catch (NoSuchAlgorithmException e) {
        throw new IllegalStateException(e);
    }
}

/**
 * Decrypts provided <code>encryptedData</code> with <code>DEFAULT_PASS_PHRASE</code>
 */
public static byte[] decrypt(byte[] encryptedData) {
    try {
        return decrypt(encryptedData, hashPassPhrase(DEFAULT_PASS_PHRASE));
    } catch (NoSuchAlgorithmException e) {
        throw new IllegalStateException(e);
    }
}

/**
 * Encrypts provided <code>data</code> with <code>passPhrase</code>
 */
public static byte[] encrypt(byte[] data, char[] passPhrase) {
    try {
final Cipher encryptionCipher = getEncryptionCipher(getSecretKey(passPhrase));
return encryptionCipher.doFinal(pad(data, minimumPadding));
} catch (InvalidKeySpecException | IllegalBlockSizeException | BadPaddingException e) {
throw new IllegalStateException(e);
}

/**
 * Decrypts provided <code>encryptedData</code> with <code>passPhrase</code>
 */
private static byte[] decrypt(byte[] encryptedData, char[] passPhrase) {
try {
final Cipher cipher = getDecryptionCipher(getSecretKey(passPhrase));
return unPad(cipher.doFinal(encryptedData));
} catch (IllegalBlockSizeException | BadPaddingException | InvalidKeySpecException e) {
throw new IllegalStateException(e);
}
}

private static SecretKey getSecretKey(char[] passPhrase) throws InvalidKeySpecException {
try {
PBEKeySpec keySpec = new PBEKeySpec(passPhrase, salt, iterationCount, aesKeyLength);
byte[] shortKey = SecretKeyFactory.getInstance("PBEWithSHA1AndDESede").
genenerateSecret(keySpec).getEncoded();
byte[] intermediaryKey = new byte[aesKeyLength / 8];
for (int i = 0, j = 0; i < aesKeyLength / 8; i++) {
intermediaryKey[i] = shortKey[j];
if (++j == shortKey.length)
j = 0;
}
return new SecretKeySpec(intermediaryKey, "AES");
} catch (NoSuchAlgorithmException | InvalidKeySpecException e) {
throw new IllegalStateException(e);
}
}

private static Cipher getEncryptionCipher(SecretKey secretKey) {
return getCipher(Cipher.ENCRYPT_MODE, secretKey);
}

private static Cipher getDecryptionCipher(SecretKey secretKey) {
return getCipher(Cipher.DECRYPT_MODE, secretKey);
}
private static Cipher getCipher(int mode, SecretKey secretKey) {
try {
    Cipher cipher = Cipher.getInstance(secretKey.getAlgorithm());
    cipher.init(mode, secretKey, random);
    return cipher;
} catch (NoSuchAlgorithmException | InvalidKeyException | NoSuchPaddingException e) {
    throw new IllegalStateException(e);
}
}

private static byte[] pad(byte[] bytes, int length) {
    if (bytes.length >= length) {
        byte[] out = new byte[bytes.length + 1];
        System.arraycopy(bytes, 0, out, 0, bytes.length);
        out[bytes.length] = (byte) 1;
        return out;
    }
    byte[] out = new byte[length + 1];
    int i = 0;
    for (; i < bytes.length; i++)
        out[i] = bytes[i];
    int padded = length - i;

    // fill the rest with random bytes
    byte[] fill = new byte[padded - 1];
    random.nextBytes(fill);
    System.arraycopy(fill, 0, out, i, padded - 1);
    out[length] = (byte) (padded + 1);
    return out;
}

private static byte[] unPad(byte[] bytes) {
    int padded = (int) bytes[bytes.length - 1];
    int targetLength = bytes.length - padded;

    byte[] out = new byte[targetLength];
    System.arraycopy(bytes, 0, out, 0, targetLength);
    return out;
}

private static char[] hashPassPhrase(String passPhrase) throws NoSuchAlgorithmException {

}
final byte[] passBytes = passPhrase.getBytes(StandardCharsets.UTF_8);
final byte[] digest = MessageDigest.getInstance(passHashAlgorithm).digest(passBytes);
return Base64.getEncoder().encodeToString(digest).toCharArray();

package org.elasticsearch.license;

import org.elasticsearch.Version;
import org.elasticsearch.action.ActionResponse;
import org.elasticsearch.common.io.stream.StreamInput;
import org.elasticsearch.common.io.stream.StreamOutput;
import org.elasticsearch.rest.RestStatus;
import java.io.IOException;
import java.util.Collections;
import java.util.HashMap;
import java.util.Map;

class PostStartTrialResponse extends ActionResponse {

    // Nodes Prior to 6.3 did not have NEED_ACKNOWLEDGEMENT as part of status
    enum Pre63Status {
        UPGRADED_TO_TRIAL,
        TRIAL_ALREADY_ACTIVATED;
    }
    enum Status {
        UPGRADED_TO_TRIAL(true, null, RestStatus.OK),
        TRIAL_ALREADY_ACTIVATED(false, "Operation failed: Trial was already activated.", RestStatus.FORBIDDEN),
        NEED_ACKNOWLEDGEMENT(false,"Operation failed: Needs acknowledgement.", RestStatus.OK);
    
    private final boolean isTrialStarted;
    private final String errorMessage;
    private final RestStatus restStatus;
    Status(boolean isTrialStarted, String errorMessage, RestStatus restStatus) {
        this.isTrialStarted = isTrialStarted;
        this.errorMessage = errorMessage;
        this.restStatus = restStatus;
    }
    boolean isTrialStarted() {
        return isTrialStarted;
    }
}
String getErrorMessage() {
    return errorMessage;
}

RestStatus getRestStatus() {
    return restStatus;
}

private Status status;
private Map<String, String[]> acknowledgeMessages;
private String acknowledgeMessage;

PostStartTrialResponse() {
}

PostStartTrialResponse(Status status) {
    this(status, Collections.emptyMap(), null);
}

PostStartTrialResponse(Status status, Map<String, String[]> acknowledgeMessages, String acknowledgeMessage) {
    this.status = status;
    this.acknowledgeMessages = acknowledgeMessages;
    this.acknowledgeMessage = acknowledgeMessage;
}

public Status getStatus() {
    return status;
}

@Override
public void readFrom(StreamInput in) throws IOException {
    status = in.readEnum(Status.class);
    if (in.getVersion().onOrAfter(Version.V_6_3_0)) {
        acknowledgeMessage = in.readOptionalString();
        int size = in.readVInt();
        Map<String, String[]> acknowledgeMessages = new HashMap<>(size);
        for (int i = 0; i < size; i++) {
            String feature = in.readString();
            int nMessages = in.readVInt();
            String[] messages = new String[nMessages];
            for (int j = 0; j < nMessages; j++) {
                messages[j] = in.readString();
            }
            acknowledgeMessages.put(feature, messages);
        }
    }
}
acknowledgeMessages.put(feature, messages);
}
this.acknowledgeMessages = acknowledgeMessages;
} else {
    this.acknowledgeMessages = Collections.emptyMap();
}

@Override
public void writeTo(StreamOutput out) throws IOException {
    Version version = Version.V_6_3_0;
    if (out.getVersion().onOrAfter(version)) {
        out.writeEnum(status);
        out.writeOptionalString(acknowledgeMessage);
        out.writeVInt(acknowledgeMessages.size());
        for (Map.Entry<String, String[]> entry : acknowledgeMessages.entrySet()) {
            out.writeString(entry.getKey());
            out.writeVInt(entry.getValue().length);
            for (String message : entry.getValue()) {
                out.writeString(message);
            }
        }
    } else {
        if (status == Status.UPGRADED_TO_TRIAL) {
            out.writeEnum(Pre63Status.UPGRADED_TO_TRIAL);
        } else if (status == Status.TRIAL_ALREADY_ACTIVATED) {
            out.writeEnum(Pre63Status.TRIAL_ALREADY_ACTIVATED);
        } else {
            throw new IllegalArgumentException("Starting trial on node with version [" + Version.CURRENT + "] requires "+
"acknowledgement parameter.");
        }
    }
}

Map<String, String[]> getAcknowledgementMessages() {
    return acknowledgeMessages;
}

String getAcknowledgementMessage() {
    return acknowledgeMessage;
}

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 */
package org.elasticsearch.license;

import org.elasticsearch.Version;
import org.elasticsearch.action.ActionResponse;
import org.elasticsearch.common.Nullable;
import org.elasticsearch.common.io.stream.StreamInput;
import org.elasticsearch.common.io.stream.StreamOutput;
import org.elasticsearch.common.io.stream.Writeable;
import org.elasticsearch.common.xcontent.ToXContentObject;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.xpack.core.XPackBuild;

import java.io.IOException;
import java.util.ArrayList;
import java.util.Collections;
import java.util.HashMap;
import java.util.List;
import java.util.Locale;
import java.util.Map;
import java.util.Set;
import java.util.stream.Collectors;

public class XPackInfoResponse extends ActionResponse {

    @Nullable private BuildInfo buildInfo;
    @Nullable private LicenseInfo licenseInfo;
    @Nullable private FeatureSetsInfo featureSetsInfo;

    public XPackInfoResponse() {}  

    public XPackInfoResponse(@Nullable BuildInfo buildInfo, @Nullable LicenseInfo licenseInfo, @Nullable FeatureSetsInfo featureSetsInfo) {
        this.buildInfo = buildInfo;
        this.licenseInfo = licenseInfo;
        this.featureSetsInfo = featureSetsInfo;
    }

    /**
     * @return  The build info (incl. build hash and timestamp)
     */
    public BuildInfo getBuildInfo() {
        return buildInfo;
    }

    /**
     * @return  The current license info (incl. UID, type/mode. status and expiry date). May return { @code null}
     * when no
     * license is currently installed.
     */
public LicenseInfo getLicenseInfo() {
    return licenseInfo;
}

/** *
 * @return The current status of the feature sets in X-Pack. Feature sets describe the features available/enabled in
 * X-Pack.
 */
public FeatureSetsInfo getFeatureSetsInfo() {
    return featureSetsInfo;
}

@Override
public void writeTo(StreamOutput out) throws IOException {
    super.writeTo(out);
    out.writeOptionalWriteable(buildInfo);
    out.writeOptionalWriteable(licenseInfo);
    out.writeOptionalWriteable(featureSetsInfo);
}

@Override
public void readFrom(StreamInput in) throws IOException {
    this.buildInfo = in.readOptionalWriteable(BuildInfo::new);
    this.licenseInfo = in.readOptionalWriteable(LicenseInfo::new);
    this.featureSetsInfo = in.readOptionalWriteable(FeatureSetsInfo::new);
}

public static class LicenseInfo implements ToXContentObject, Writeable {

    private final String uid;
    private final String type;
    private final String mode;
    private final long expiryDate;
    private final License.Status status;

    public LicenseInfo(License license) {
        this(license.uid(), license.type(), license.operationMode().name().toLowerCase(Locale.ROOT),
            license.status(), license.expiryDate());
    }

    public LicenseInfo(StreamInput in) throws IOException {
        this(in.readString(), in.readString(), in.readString(), License.Status.readFrom(in), in.readLong());
    }

    public LicenseInfo(String uid, String type, String mode, License.Status status, long expiryDate) {
        this.uid = uid;
        this.type = type;
    }
}
this.mode = mode;
this.status = status;
this.expiryDate = expiryDate;
}

public String getUid() {
    return uid;
}

public String getType() {
    return type;
}

public String getMode() {
    return mode;
}

public long getExpiryDate() {
    return expiryDate;
}

public License.Status getStatus() {
    return status;
}

@Override
public XContentBuilder toXContent(XContentBuilder builder, Params params) throws IOException {
    builder.startObject()
    .field("uid", uid)
    .field("type", type)
    .field("mode", mode)
    .field("status", status.label());
    if (expiryDate != LicenseService.BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS) {
        builder.timeField("expiry_date_in_millis", "expiry_date", expiryDate);
    }
    return builder.endObject();
}

public void writeTo(StreamOutput out) throws IOException {
    out.writeString(uid);
    out.writeString(type);
    out.writeString(mode);
    status.writeTo(out);
    out.writeLong(expiryDate);
}

@override
public class BuildInfo implements ToXContentObject, Writeable {

public static class BuildInfo implements ToXContentObject, Writeable {

private final String hash;
private final String timestamp;

public BuildInfo(XPackBuild build) {
    this(build.shortHash(), build.date());
}

public BuildInfo(StreamInput input) throws IOException {
    this(input.readString(), input.readString());
}

public BuildInfo(String hash, String timestamp) {
    this.hash = hash;
    this.timestamp = timestamp;
}

public String getHash() {
    return hash;
}

public String getTimestamp() {
    return timestamp;
}

@Override
public XContentBuilder toXContent(XContentBuilder builder, Params params) throws IOException {
    return builder.startObject()
        .field("hash", hash)
        .field("date", timestamp)
        .endObject();
}

public void writeTo(StreamOutput output) throws IOException {
    output.writeString(hash);
    output.writeString(timestamp);
}

public static class FeatureSetsInfo implements ToXContentObject, Writeable {

    private final Map<String, FeatureSet> featureSets;

    public FeatureSetsInfo(StreamInput in) throws IOException {
        int size = in.readVInt();
        Map<String, FeatureSet> featureSets = new HashMap<>(size);
        for (int i = 0; i < size; i++) {
            FeatureSet featureSet = new FeatureSet(in);
            featureSets.put(featureSet.getName(), featureSet);
        }
    }

    public XContentBuilder toXContent(XContentBuilder builder, Params params) throws IOException {
        return builder.startObject()
            .field("featureSets", featureSets)
            .field("size", size)
            .endObject();
    }

    public void writeTo(StreamOutput output) throws IOException {
        output.writeString(featureSets);
        output.writeString(size);
    }
}

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public FeatureSetsInfo(Set<FeatureSet> featureSets) {
    Map<String, FeatureSet> map = new HashMap<>(featureSets.size());
    for (FeatureSet featureSet : featureSets) {
        map.put(featureSet.name, featureSet);
    }
    this.featureSets = Collections.unmodifiableMap(map);
}

public Map<String, FeatureSet> getFeatureSets() {
    return featureSets;
}

@Override
public XContentBuilder toXContent(XContentBuilder builder, Params params) throws IOException {
    builder.startObject();
    List<String> names = new ArrayList<>(this.featureSets.keySet()).stream().sorted().collect(Collectors.toList());
    for (String name : names) {
        builder.field(name, featureSets.get(name), params);
    }
    return builder.endObject();
}

public void writeTo(StreamOutput out) throws IOException {
    out.writeVInt(featureSets.size());
    for (FeatureSet featureSet : featureSets.values()) {
        featureSet.writeTo(out);
    }
}

public static class FeatureSet implements ToXContentObject, Writeable {

    private final String name;
    @Nullable private final String description;
    private final boolean available;
    private final boolean enabled;
    @Nullable private final Map<String, Object> nativeCodeInfo;

    public FeatureSet(StreamInput in) throws IOException {
        this(in.readString(), in.readOptionalString(), in.readBoolean(), in.readBoolean(),
             in.getVersion().onOrAfter(Version.V_5_4_0) ? in.readMap() : null);
    }

    public FeatureSet(String name, @Nullable String description, boolean available, boolean enabled,
                      @Nullable Map<String, Object> nativeCodeInfo) {
        this.name = name;
        this.description = description;
        this.available = available;
        this.enabled = enabled;
        this.nativeCodeInfo = nativeCodeInfo;
    }

    @Override
    public XContentBuilder toXContent(XContentBuilder builder, Params params) throws IOException {
        builder.startObject();
        builder.field("name", name);
        if (description != null) {
            builder.field("description", description);
        }
        builder.field("available", available);
        builder.field("enabled", enabled);
        if (nativeCodeInfo != null) {
            builder.field("nativeCodeInfo", nativeCodeInfo);
        }
        return builder.endObject();
    }

    public void writeTo(StreamOutput out) throws IOException {
        out.writeVInt(name.length());
        out.writeString(name);
        if (description != null) {
            out.writeOptionalString(description);
        }
        out.writeBoolean(available);
        out.writeBoolean(enabled);
        if (nativeCodeInfo != null) {
            out.writeMap(nativeCodeInfo);
        }
        if (version.onOrAfter(Version.V_5_4_0)) {
            out.writeOptionalString(nativeCodeInfo.get("version"));
        }
    }

    @Override
    public void writeTo(JsonGenerator out, TypeReference typeRef) throws IOException, JsonProcessingException {
        throw new UnsupportedOperationException("Not implemented yet");
    }

    public void writeAsBytes(Output output) throws IOException {
        throw new UnsupportedOperationException("Not implemented yet");
    }

    @Override
    public int hashCode() {
        throw new UnsupportedOperationException("Not implemented yet");
    }

    @Override
    public boolean equals(Object obj) {
        throw new UnsupportedOperationException("Not implemented yet");
    }

    @Override
    public String toString() {
        throw new UnsupportedOperationException("Not implemented yet");
    }

    // Other methods...
}
public FeatureSet(String name, @Nullable String description, boolean available, boolean enabled,
        @Nullable Map<String, Object> nativeCodeInfo) {
    this.name = name;
    this.description = description;
    this.available = available;
    this.enabled = enabled;
    this.nativeCodeInfo = nativeCodeInfo;
}

public String name() {
    return name;
}

@Nullable
public String description() {
    return description;
}

public boolean available() {
    return available;
}

public boolean enabled() {
    return enabled;
}

@Nullable
public Map<String, Object> nativeCodeInfo() {
    return nativeCodeInfo;
}

public XContentBuilder toXContent(XContentBuilder builder, Params params) throws IOException {
    builder.startObject();
    if (description != null) {
        builder.field("description", description);
    }
    builder.field("available", available);
    builder.field("enabled", enabled);
    if (nativeCodeInfo != null) {
        builder.field("native_code_info", nativeCodeInfo);
    }
    return builder.endObject();
}

public void writeTo(StreamOutput out) throws IOException {
    out.writeString(name);
    out.writeOptionalString(description);
    out.writeBoolean(available);
}
out.writeBoolean(enabled);
if (out.getVersion().onOrAfter(Version.V_5_4_0)) {
    out.writeMap(nativeCodeInfo);
}
}
}

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 * or more contributor license agreements. Licensed under the Elastic License;
 * you may not use this file except in compliance with the Elastic License.
 */
package org.elasticsearch.license;

import org.elasticsearch.action.Action;
import org.elasticsearch.client.ElasticsearchClient;

public class PostStartBasicAction extends Action<PostStartBasicRequest, PostStartBasicResponse, PostStartBasicRequestBuilder> {

    public static final PostStartBasicAction INSTANCE = new PostStartBasicAction();
    public static final String NAME = "cluster:admin/xpack/license/start_basic";

    private PostStartBasicAction() {
        super(NAME);
    }

    @Override
    public PostStartBasicRequestBuilder newRequestBuilder(ElasticsearchClient client) {
        return new PostStartBasicRequestBuilder(client, this);
    }

    @Override
    public PostStartBasicResponse newResponse() {
        return new PostStartBasicResponse();
    }
}

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 * or more contributor license agreements. Licensed under the Elastic License;
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 */
package org.elasticsearch.license;

import org.elasticsearch.action.ActionRequestBuilder;
import org.elasticsearch.client.ElasticsearchClient;
class GetBasicStatusRequestBuilder extends ActionRequestBuilder<GetBasicStatusRequest, GetBasicStatusResponse, GetBasicStatusRequestBuilder> {
    GetBasicStatusRequestBuilder(ElasticsearchClient client, GetBasicStatusAction action) {
        super(client, action, new GetBasicStatusRequest());
    }
}

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 */
package org.elasticsearch.license;

import org.elasticsearch.Version;
import org.elasticsearch.action.ActionRequestValidationException;
import org.elasticsearch.action.support.master.MasterNodeRequest;
import org.elasticsearch.common.io.stream.StreamInput;
import org.elasticsearch.common.io.stream.StreamOutput;
import java.io.IOException;

public class PostStartTrialRequest extends MasterNodeRequest<PostStartTrialRequest> {
    private boolean acknowledge = false;
    private String type;

    @Override
    public ActionRequestValidationException validate() {
        return null;
    }

    public PostStartTrialRequest setType(String type) {
        this.type = type;
        return this;
    }

    public String getType() {
        return type;
    }

    public PostStartTrialRequest acknowledge(boolean acknowledge) {
        this.acknowledge = acknowledge;
        return this;
    }
}
public boolean isAcknowledged() {
    return acknowledge;
}

@Override
public void readFrom(StreamInput in) throws IOException {
    super.readFrom(in);
    if (in.getVersion().onOrAfter(Version.V_6_3_0)) {
        type = in.readString();
        acknowledge = in.readBoolean();
    } else {
        type = "trial";
        acknowledge = true;
    }
}

@Override
public void writeTo(StreamOutput out) throws IOException {
    Version version = Version.V_6_3_0;
    if (out.getVersion().onOrAfter(version)) {
        super.writeTo(out);
        out.writeString(type);
        out.writeBoolean(acknowledge);
    } else {
        if ("trial".equals(type) == false) {
            throw new IllegalArgumentException("All nodes in cluster must be version [" + version + "] or newer to start trial with a different type than 'trial'. Attempting to write to "+" a node with version [" + out.getVersion() + "] with trial type [" + type + "].");
        } else if (acknowledge == false) {
            throw new IllegalArgumentException("Request must be acknowledged to send to a node with a version [" + "prior to [" + version + "]. Attempting to send request to node with version [" + out.getVersion() + "] " +"without acknowledgement.");
        } else {
            super.writeTo(out);
        }
    }
}
*/

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 */

package org.elasticsearch.license;

import org.elasticsearch.action.ActionListener;
import org.elasticsearch.action.support.ActionFilters;
public class TransportGetTrialStatusAction extends TransportMasterNodeReadAction<GetTrialStatusRequest, GetTrialStatusResponse> {

    @Inject
    public TransportGetTrialStatusAction(Settings settings, TransportService transportService, ClusterService clusterService,
                                          ThreadPool threadPool, ActionFilters actionFilters,
                                          IndexNameExpressionResolver indexNameExpressionResolver) {
        super(settings, GetTrialStatusAction.NAME, transportService, clusterService, threadPool, actionFilters, indexNameExpressionResolver, GetTrialStatusRequest::new);
    }

    @Override
    protected String executor() {
        return ThreadPool.Names.SAME;
    }

    @Override
    protected GetTrialStatusResponse newResponse() {
        return new GetTrialStatusResponse();
    }

    @Override
    protected void masterOperation(GetTrialStatusRequest request, ClusterState state,
                                    ActionListener<GetTrialStatusResponse> listener) throws Exception {
        LicensesMetaData licensesMetaData = state.metaData().custom(LicensesMetaData.TYPE);
        listener.onResponse(new GetTrialStatusResponse(licensesMetaData == null || licensesMetaData.isEligibleForTrial()));
    }

    @Override
    protected ClusterBlockException checkBlock(GetTrialStatusRequest request, ClusterState state) {
        return state.blocks().globalBlockedException(ClusterBlockLevel.METADATA_READ);
    }
}
package org.elasticsearch.license;

import org.elasticsearch.ElasticsearchException;
import org.elasticsearch.Version;
import org.elasticsearch.action.ActionListener;
import org.elasticsearch.cluster.AckedClusterStateUpdateTask;
import org.elasticsearch.cluster.ClusterChangedEvent;
import org.elasticsearch.cluster.ClusterState;
import org.elasticsearch.cluster.ClusterStateListener;
import org.elasticsearch.cluster.ack.ClusterStateUpdateResponse;
import org.elasticsearch.cluster.cluster.metadata.MetaData;
import org.elasticsearch.cluster.node.DiscoveryNode;
import org.elasticsearch.cluster.service.ClusterService;
import org.elasticsearch.common.component.AbstractLifecycleComponent;
import org.elasticsearch.common.component.Lifecycle;
import org.elasticsearch.common.joda.FormatDateTimeFormatter;
import org.elasticsearch.common.joda.Joda;
import org.elasticsearch.common.logging.LoggerMessageFormat;
import org.elasticsearch.common.settings.Setting;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.unit.TimeValue;
import org.elasticsearch.discovery.DiscoveryModule;
import org.elasticsearch.env.Environment;
import org.elasticsearch.gateway.GatewayService;
import org.elasticsearch.watcher.ResourceWatcherService;
import org.elasticsearch.xpack.core.XPackPlugin;
import org.elasticsearch.xpack.core.XPackSettings;
import org.elasticsearch.xpack.core.scheduler.SchedulerEngine;
import java.time.Clock;
import java.util.ArrayList;
import java.util.Arrays;
import java.util.Collections;
import java.util.HashMap;
import java.util.HashSet;
import java.util.List;
import java.util.Locale;
import java.util.Map;
import java.util.Set;
import java.util.concurrent.atomic.AtomicReference;

/**
* Service responsible for managing LicensesMetaData.
*/
* On the master node, the service handles updating the cluster state when a new license is registered.
* It also listens on all nodes for cluster state updates, and updates '{@link XPackLicenseState}' when
* the license changes are detected in the cluster state.
*/

public class LicenseService extends AbstractLifecycleComponent implements ClusterStateListener,
SchedulerEngine.Listener {

    public static final Setting<String> SELF_GENERATED_LICENSE_TYPE = new
Setting<"xpack.license.self_generated.type",
    (s) -> "basic", (s) -> {
        if (SelfGeneratedLicense.validSelfGeneratedType(s)) {
            return s;
        } else {
            throw new IllegalArgumentException("Illegal self generated license type [" + s + "]. Must be trial or basic.");
        }
    }, Setting.Property.NodeScope);

    // pkg private for tests
    static final TimeValue NON_BASIC_SELF_GENERATED_LICENSE_DURATION =
    TimeValue.timeValueHours(30 * 24);

    static final Set<String> VALID_TRIAL_TYPES = new HashSet<>(Arrays.asList("trial", "platinum", "gold"));

    /**
     * Duration of grace period after a license has expired
     */
    static final TimeValue GRACE_PERIOD_DURATION = days(7);

    public static final long BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS =
    Long.MAX_VALUE - days(365).millis();

    private final ClusterService clusterService;

    /**
     * The xpack feature state to update when license changes are made.
     */
    private final XPackLicenseState licenseState;

    /**
     * Currently active license
     */
    private final AtomicReference<License> currentLicense = new AtomicReference<>();
    private SchedulerEngine scheduler;
    private final Clock clock;

    /**
     * File watcher for operation mode changes
private final OperationModeFileWatcher operationModeFileWatcher;

private List<ExpirationCallback> expirationCallbacks = new ArrayList<>();

static final int SELF_GENERATED_LICENSE_MAX_NODES = 1000;

public static final String LICENSE_JOB = "licenseJob";

private static final FormatDateTimeFormatter DATE_FORMATTER = Joda.forPattern("EEEE, MMMMM dd, yyyy", Locale.ROOT);

private static final String ACKNOWLEDGEMENT_HEADER = "This license update requires acknowledgement. To acknowledge the license, " + "please read the following messages and update the license again, this time with the \"acknowledge=true\" parameter:";

public LicenseService(Settings settings, ClusterService clusterService, Clock clock, Environment env, ResourceWatcherService resourceWatcherService, XPackLicenseState licenseState) {
    super(settings);
    this.clusterService = clusterService;
    this.clock = clock;
    this.scheduler = new SchedulerEngine(clock);
    this.licenseState = licenseState;
    this.operationModeFileWatcher = new OperationModeFileWatcher(resourceWatcherService,
        XPackPlugin.resolveConfigFile(env, "license_mode"), logger,
        () -> updateLicenseState(getLicensesMetaData()));
    this.scheduler.register(this);
    populateExpirationCallbacks();
}

private void logExpirationWarning(long expirationMillis, boolean expired) {
    String expiredMsg = expired ? "expired" : "will expire";
    String general = LoggerMessageFormat.format(null, "License \[{}\] on \[\{}\].\n" + "# If you have a new license, please update it. Otherwise, please reach out to\n" + "# your support contact.\n" + "# ", expiredMsg, DATE_FORMATTER.printer().print(expirationMillis));
    if (expired) {
        general = general.toUpperCase(Locale.ROOT);
    }
    StringBuilder builder = new StringBuilder(general);
    builder.append(System.lineSeparator());
if (expired) {
    builder.append("# COMMERCIAL PLUGINS OPERATING WITH REDUCED FUNCTIONALITY");
} else {
    builder.append("# Commercial plugins operate with reduced functionality on license expiration:");
}

XPackLicenseState.EXPIRATION_MESSAGES.forEach(feature, messages) -> {
    if (messages.length > 0) {
        builder.append(System.lineSeparator());
        builder.append("- ");
        builder.append(feature);
        for (String message : messages) {
            builder.append(System.lineSeparator());
            builder.append("- ");
            builder.append(message);
        }
    }
}
logger.warn("{}");

private void populateExpirationCallbacks() {
    expirationCallbacks.add(new ExpirationCallback.Pre(days(7), days(25), days(1)) {
        @Override
        public void on(License license) {
            logExpirationWarning(license.expiryDate(), false);
        }
    });
    expirationCallbacks.add(new ExpirationCallback.Pre(days(0), days(7), TimeValue.timeValueMinutes(10)) {
        @Override
        public void on(License license) {
            logExpirationWarning(license.expiryDate(), false);
        }
    });
    expirationCallbacks.add(new ExpirationCallback.Post(days(0), null, TimeValue.timeValueMinutes(10)) {
        @Override
        public void on(License license) {
            // logged when grace period begins
            logExpirationWarning(license.expiryDate(), true);
        }
    });

    /**
     * Registers new license in the cluster
     * Master only operation. Installs a new license on the master provided it is VALID
     */
    public void registerLicense(final PutLicenseRequest request, final ActionListener<PutLicenseResponse> listener) {

final License newLicense = request.license();
final long now = clock.millis();
if (!LicenseVerifier.verifyLicense(newLicense) || newLicense.issueDate() > now || newLicense.startDate() > now) {
    listener.onResponse(new PutLicenseResponse(true, LicensesStatus.INVALID));
} else if (newLicense.type().equals("basic")) {
    listener.onFailure(new IllegalArgumentException("Registering basic licenses is not allowed.");
} else if (newLicense.expiryDate() < now) {
    listener.onResponse(new PutLicenseResponse(true, LicensesStatus.EXPIRED));
} else {
    if (!request.acknowledged()) {
        // TODO: ack messages should be generated on the master, since another node's cluster state may be behind...
        final License currentLicense = getLicense();
        if (currentLicense != null) {
            Map<String, String[]> acknowledgeMessages = getAckMessages(newLicense, currentLicense);
            if (acknowledgeMessages.isEmpty() == false) {
                // needs acknowledgement
                listener.onResponse(new PutLicenseResponse(false, LicensesStatus.VALID,
                        ACKNOWLEDGEMENT_HEADER,
                        acknowledgeMessages));
                return;
            }
        }
    }

    if (newLicense.isProductionLicense() && XPackSettings.SECURITY_ENABLED.get(settings) && XPackSettings.TRANSPORT_SSL_ENABLED.get(settings) == false && isProductionMode(settings, clusterService.localNode())) {
        // security is on but TLS is not configured we gonna fail the entire request and throw an exception
        throw new IllegalStateException("Cannot install a "] + newLicense.operationMode() + "] license unless TLS is configured or security is disabled");
    } else {
        clusterService.submitStateUpdateTask("register license "] + newLicense.uid() + "]", new
                AckedClusterStateUpdateTask<PutLicenseResponse>(request, listener) {
                    @Override
                    protected PutLicenseResponse newResponse(boolean acknowledged) {
                        return new PutLicenseResponse(acknowledged, LicensesStatus.VALID);
                    }
                };
    }

    @Override
    public ClusterState execute(ClusterState currentState) throws Exception {
        XPackPlugin.checkReadyForXPackCustomMetadata(currentState);
        MetaData currentMetadata = currentState.metaData();
    }


public static Map<String, String[]> getAckMessages(License newLicense, License currentLicense) {
    Map<String, String[]> acknowledgeMessages = new HashMap<>();
    if (!License.isAutoGeneratedLicense(currentLicense.signature()) // current license is not auto-generated
        && currentLicense.issueDate() > newLicense.issueDate()) { // and has a later issue date
        acknowledgeMessages.put("license", new String[]{
            "The new license is older than the currently installed license. " +
            "Are you sure you want to override the current license?" });
    }
    XPackLicenseState.ACKNOWLEDGMENT_MESSAGES.forEach((feature, ackMessages) -> {
        String[] messages = ackMessages.apply(currentLicense.operationMode(), newLicense.operationMode());
        if (messages.length > 0) {
            acknowledgeMessages.put(feature, messages);
        }
    });
    return acknowledgeMessages;
}

private static TimeValue days(int days) {
    return TimeValue.timeValueHours(days * 24);
}

@Override
public void triggered(SchedulerEngine.Event event) {
    final LicensesMetaData licensesMetaData = getLicensesMetaData();
    if (licensesMetaData != null) {
        final License license = licensesMetaData.getLicense();
        if (event.getJobName().equals(LICENSE_JOB)) {
            updateLicenseState(license, licensesMetaData.getMostRecentTrialVersion());
        } else if (event.getJobName().startsWith(ExpirationCallback.EXPIRATION_JOB_PREFIX)) {
            expirationCallbacks.stream()
                .filter(expirationCallback -> expirationCallback.getId().equals(event.getJobName()))
                .forEach(expirationCallback -> expirationCallback.on(license));
        }
    }
}
/**
 * Remove license from the cluster state metadata
 */

public void removeLicense(final DeleteLicenseRequest request, final ActionListener<ClusterStateUpdateResponse> listener) {
    clusterService.submitStateUpdateTask("delete license",
            new AcksedClusterStateUpdateTask<ClusterStateUpdateResponse>(request, listener) {
                @Override
                protected ClusterStateUpdateResponse newResponse(boolean acknowledged) {
                    return new ClusterStateUpdateResponse(acknowledged);
                }

                @Override
                public ClusterState execute(ClusterState currentState) throws Exception {
                    MetaData metaData = currentState.metaData();
                    final LicensesMetaData currentLicenses = metaData.custom(LicensesMetaData.TYPE);
                    if (currentLicenses.getLicense() != LicensesMetaData.LICENSE_TOMBSTONE) {
                        MetaData.Builder mdBuilder = MetaData.builder(currentState.metaData());
                        LicensesMetaData newMetadata = new LicensesMetaData(LicensesMetaData.LICENSE_TOMBSTONE,
                                currentLicenses.getMostRecentTrialVersion());
                        mdBuilder.putCustom(LicensesMetaData.TYPE, newMetadata);
                        return ClusterState.builder(currentState).metaData(mdBuilder).build();
                    } else {
                        return currentState;
                    }
                }
            });

    public License getLicense() {
        final License license = getLicense(clusterService.state().metaData());
        return license == LicensesMetaData.LICENSE_TOMBSTONE ? null : license;
    }

    private LicensesMetaData getLicensesMetaData() {
        return this.clusterService.state().metaData().custom(LicensesMetaData.TYPE);
    }

    void startTrialLicense(PostStartTrialRequest request, final ActionListener<PostStartTrialResponse> listener) {
        if (!VALID_TRIAL_TYPES.contains(request.getType())) {
            throw new IllegalArgumentException("Cannot start trial of type [" + request.getType() + "]" + VALID_TRIAL_TYPES + ",");
        }
    }
StartTrialClusterTask task = new StartTrialClusterTask(logger, clusterService.getClusterName().value(), clock, request, listener);
    clusterService.submitStateUpdateTask("started trial license", task);
}

void startBasicLicense(PostStartBasicRequest request, final ActionListener<PostStartBasicResponse> listener) {
    StartBasicClusterTask task = new StartBasicClusterTask(logger, clusterService.getClusterName().value(),
        clock, request, listener);
    clusterService.submitStateUpdateTask("start basic license", task);
}

/**
 * Master-only operation to generate a one-time global self generated license.
 * The self generated license is only generated and stored if the current cluster state metadata
 * has no existing license. If the cluster currently has a basic license that has an expiration date,
 * a new basic license with no expiration date is generated.
 */
private void registerOrUpdateSelfGeneratedLicense() {
    clusterService.submitStateUpdateTask("maybe generate license for cluster",
        new StartupSelfGeneratedLicenseTask(settings, clock, clusterService));
}

@Override
protected void doStart() throws ElasticsearchException {
    clusterService.addListener(this);
    scheduler.start(Collections.emptyList());
    logger.debug("initializing license state");
    if (clusterService.lifecycleState() == Lifecycle.State.STARTED) {
        final ClusterState clusterState = clusterService.state();
        if (clusterState.blocks().hasGlobalBlock(GatewayService.STATE_NOT_RECOVERED_BLOCK) == false
            &&
            clusterState.nodes().getMasterNode() != null &&
            XPackPlugin.isReadyForXPackCustomMetadata(clusterState)) {
            final LicensesMetaData currentMetaData = clusterState.metaData().custom(LicensesMetaData.TYPE);
            boolean noLicense = currentMetaData == null || currentMetaData.getLicense() == null;
            if (clusterState.getNodes().isLocalNodeElectedMaster() &&
                (noLicense || LicenseUtils.licenseNeedsExtended(currentMetaData.getLicense()))) {
                // triggers a cluster changed event eventually notifying the current licensee
                registerOrUpdateSelfGeneratedLicense();
            }
        }
    }
}

@Override
protected void doStop() throws ElasticsearchException {
    clusterService.removeListener(this);
}
scheduler.stop();
// clear current license
currentLicense.set(null);
}

@Override
protected void doClose() throws ElasticsearchException {
}

/**
 * When there is no global block on [link org.elasticsearch.gateway.GatewayService#STATE_NOT_RECOVERED_BLOCK]
 * notify licensees and issue auto-generated license if no license has been installed/issued yet.
 */
@Override
public void clusterChanged(ClusterChangedEvent event) {
    final ClusterState previousClusterState = event.previousState();
    final ClusterState currentClusterState = event.state();
    if (!currentClusterState.blocks().hasGlobalBlock(GatewayService.STATE_NOT_RECOVERED_BLOCK)) {
        if (XPackPlugin.isReadyForXPackCustomMetadata(currentClusterState) == false) {
            logger.debug("cannot add license to cluster as the following nodes might not understand the license metadata: {}", () -> XPackPlugin.nodesNotReadyForXPackCustomMetadata(currentClusterState));
            return;
        }

        final LicensesMetaData prevLicensesMetaData = previousClusterState.getMetaData().custom(LicensesMetaData.TYPE);
        final LicensesMetaData currentLicensesMetaData = currentClusterState.getMetaData().custom(LicensesMetaData.TYPE);
        if (logger.isDebugEnabled()) {
            logger.debug("previous 
\[\{
\}
\]", prevLicensesMetaData);
            logger.debug("current 
\[\{
\}
\]", currentLicensesMetaData);
        }
        // notify all interested plugins
        if (previousClusterState.blocks().hasGlobalBlock(GatewayService.STATE_NOT_RECOVERED_BLOCK)
            || prevLicensesMetaData == null) {
            if (currentLicensesMetaData != null) {
                onUpdate(currentLicensesMetaData);
            }
        } else if (!prevLicensesMetaData.equals(currentLicensesMetaData)) {
            onUpdate(currentLicensesMetaData);
        }
    }
}

License currentLicense = null;
boolean noLicenseInPrevMetadata = prevLicensesMetaData == null || prevLicensesMetaData.getLicense() == null;
if (noLicenseInPrevMetadata == false) {
currentLicense = prevLicensesMetaData.getLicense();
}
boolean noLicenseInCurrentMetadata = (currentLicensesMetaData == null ||
currentLicensesMetaData.getLicense() == null);
if (noLicenseInCurrentMetadata == false) {
    currentLicense = currentLicensesMetaData.getLicense();
}

boolean noLicense = noLicenseInPrevMetadata && noLicenseInCurrentMetadata;
// auto-generate license if no licenses ever existed or if the current license is basic and
// needs extended. this will trigger a subsequent cluster changed event
if (currentClusterState.getNodes().isLocalNodeElectedMaster() &&
    noLicense || LicenseUtils.licenseNeedsExtended(currentLicense)) {
    registerOrUpdateSelfGeneratedLicense();
} else if (logger.isDebugEnabled()) {
    logger.debug("skipped license notifications reason: [{ }],
GatewayService.STATE_NOT_RECOVERED_BLOCK);
}

private void updateLicenseState(LicensesMetaData licensesMetaData) {
    if (licensesMetaData != null) {
        updateLicenseState(getLicense(licensesMetaData), licensesMetaData.getMostRecentTrialVersion());
    }
}

protected void updateLicenseState(final License license, Version mostRecentTrialVersion) {
    if (license == LicensesMetaData.LICENSE_TOMBSTONE) {
        // implies license has been explicitly deleted
        licenseState.update(License.OperationMode.MISSING, false, mostRecentTrialVersion);
        return;
    } else if (license != null) {
        long time = clock.millis();
        boolean active;
        if (license.expiryDate() == BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS) {
            active = true;
        } else {
            // We subtract the grace period from the current time to avoid overflowing on an expiration
            // date that is near Long.MAX_VALUE
            active = time >= license.issueDate() && time - GRACE_PERIOD_DURATION.getMillis() <
            license.expiryDate();
        }
        licenseState.update(license.operationMode(), active, mostRecentTrialVersion);
    }
    if (active) {
        if (time < license.expiryDate()) {
logger.debug("license [{ } ] - valid", license.uid());
} else {
    logger.warn("license [{ } ] - grace", license.uid());
}
} else {
    logger.warn("license [{ } ] - expired", license.uid());
}
}

/**
 * Notifies registered licensees of license state change and/or new active license
 * based on the license in <code>currentLicensesMetaData</code>.
 * Additionally schedules license expiry notifications and event callbacks
 * relative to the current license's expiry
 */
private void onUpdate(final LicensesMetaData currentLicensesMetaData) {
    final License license = getLicense(currentLicensesMetaData);
    // license can be null if the trial license is yet to be auto-generated
    // in this case, it is a no-op
    if (license != null) {
        final License previousLicense = currentLicense.get();
        if (license.equals(previousLicense) == false) {
            currentLicense.set(license);
            license.setOperationModeFileWatcher(operationModeFileWatcher);
            scheduler.add(new SchedulerEngine.Job(LICENSE_JOB, nextLicenseCheck(license)));
            for (ExpirationCallback expirationCallback : expirationCallbacks) {
                scheduler.add(new SchedulerEngine.Job(expirationCallback.getId(),
                    (startTime, now) ->
                    expirationCallback.nextScheduledTimeForExpiry(license.expiryDate(), startTime, now)));
            }
            if (previousLicense != null) {
                // remove operationModeFileWatcher to gc the old license object
                previousLicense.removeOperationModeFileWatcher();
            }
            logger.info("license [{ } ] mode [{ } ] - valid", license.uid(),
                license.operationMode().name().toLowerCase(Locale.ROOT));
        }
        updateLicenseState(license, currentLicensesMetaData.getMostRecentTrialVersion());
    }
}

// pkg private for tests
static SchedulerEngine.Schedule nextLicenseCheck(License license) {
    return (startTime, time) -> {
        if (time < license.issueDate()) {
            // when we encounter a license with a future issue date
            // which can happen with autogenerated license,
// we want to schedule a notification on the license issue date
// so the license is notificed once it is valid
// see https://github.com/elastic/x-plugins/issues/983
return license.issueDate();
} else if (time < license.expiryDate()) {
    return license.expiryDate();
} else if (time < license.expiryDate() + GRACE_PERIOD_DURATION.getMillis()) {
    return license.expiryDate() + GRACE_PERIOD_DURATION.getMillis();
}
return -1; // license is expired, no need to check again
};

public static License getLicense(final MetaData metaData) {
    final LicensesMetaData licensesMetaData = metaData.custom(LicensesMetaData.TYPE);
    return getLicense(licensesMetaData);
}

static License getLicense(final LicensesMetaData metaData) {
    if (metaData != null) {
        License license = metaData.getLicense();
        if (license == LicensesMetaData.LICENSE_TOMBSTONE) {
            return license;
        } else if (license != null) {
            boolean autoGeneratedLicense = License.isAutoGeneratedLicense(license.signature());
            if ((autoGeneratedLicense && SelfGeneratedLicense.verify(license))
                || (autoGeneratedLicense && LicenseVerifier.verifyLicense(license))) {
                return license;
            }
        }
    }
    return null;
}

private static boolean isProductionMode(Settings settings, DiscoveryNode localNode) {
    final boolean singleNodeDisco = "single-node".equals(DiscoveryModule.DISCOVERY_TYPE_SETTING.get(settings));
    return singleNodeDisco == false && isBoundToLoopback(localNode) == false;
}

private static boolean isBoundToLoopback(DiscoveryNode localNode) {
    return localNode.getAddress().address().getAddress().isLoopbackAddress();
}

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 * or more contributor license agreements. Licensed under the Elastic License;
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 */
package org.elasticsearch.license;

import org.elasticsearch.action.Action;
import org.elasticsearch.client.ElasticsearchClient;

public class PostStartTrialAction extends Action<PostStartTrialRequest, PostStartTrialResponse, PostStartTrialRequestBuilder> {

    public static final PostStartTrialAction INSTANCE = new PostStartTrialAction();
    public static final String NAME = "cluster:admin/xpack/license/start_trial";

    private PostStartTrialAction() {
        super(NAME);
    }

    @Override
    public PostStartTrialRequestBuilder newRequestBuilder(ElasticsearchClient client) {
        return new PostStartTrialRequestBuilder(client, this);
    }

    @Override
    public PostStartTrialResponse newResponse() {
        return new PostStartTrialResponse();
    }
}

package org.elasticsearch.license;
import org.elasticsearch.action.ActionListener;
import org.elasticsearch.client.ElasticsearchClient;
import org.elasticsearch.rest.action.RestBuilderListener;

public class LicensingClient {
    private final ElasticsearchClient client;

    public LicensingClient(ElasticsearchClient client) {
        this.client = client;
    }

    public PutLicenseRequestBuilder preparePutLicense(License license) {
        return new PutLicenseRequestBuilder(client).setLicense(license);
    }
}

package org.elasticsearch.license;
import org.elasticsearch.action.ActionListener;
import org.elasticsearch.client.ElasticsearchClient;
import org.elasticsearch.rest.action.RestBuilderListener;

public class LicensingClient {
    private final ElasticsearchClient client;

    public LicensingClient(ElasticsearchClient client) {
        this.client = client;
    }

    public PutLicenseRequestBuilder preparePutLicense(License license) {
        return new PutLicenseRequestBuilder(client).setLicense(license);
    }
}
public void putLicense(PutLicenseRequest request, ActionListener<PutLicenseResponse> listener) {
    client.execute(PutLicenseAction.INSTANCE, request, listener);
}

public GetLicenseRequestBuilder prepareGetLicense() {
    return new GetLicenseRequestBuilder(client);
}

public void getLicense(GetLicenseRequest request, ActionListener<GetLicenseResponse> listener) {
    client.execute(GetLicenseAction.INSTANCE, request, listener);
}

public DeleteLicenseRequestBuilder prepareDeleteLicense() {
    return new DeleteLicenseRequestBuilder(client);
}

public void deleteLicense(DeleteLicenseRequest request, ActionListener<DeleteLicenseResponse> listener) {
    client.execute(DeleteLicenseAction.INSTANCE, request, listener);
}

public PostStartTrialRequestBuilder preparePostStartTrial() {
    return new PostStartTrialRequestBuilder(client, PostStartTrialAction.INSTANCE);
}

public GetTrialStatusRequestBuilder prepareGetStartTrial() {
    return new GetTrialStatusRequestBuilder(client, GetTrialStatusAction.INSTANCE);
}

public void postStartTrial(PostStartTrialRequest request, ActionListener<PostStartTrialResponse> listener) {
    client.execute(PostStartTrialAction.INSTANCE, request, listener);
}

public void postStartBasic(PostStartBasicRequest request, ActionListener<PostStartBasicResponse> listener) {
    client.execute(PostStartBasicAction.INSTANCE, request, listener);
}

public PostStartBasicRequestBuilder preparePostStartBasic() {
    return new PostStartBasicRequestBuilder(client, PostStartBasicAction.INSTANCE);
}

public GetBasicStatusRequestBuilder prepareGetStartBasic() {
    return new GetBasicStatusRequestBuilder(client, GetBasicStatusAction.INSTANCE);
}

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*/
package org.elasticsearch.license;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.rest.BytesRestResponse;
import org.elasticsearch.rest.RestController;
import org.elasticsearch.rest.RestRequest;
import org.elasticsearch.rest.RestResponse;
import org.elasticsearch.rest.RestStatus;
import org.elasticsearch.rest.action.RestBuilderListener;
import org.elasticsearch.xpack.core.XPackClient;
import org.elasticsearch.xpack.core.rest.XPackRestHandler;
import java.io.IOException;
import static org.elasticsearch.rest.RestRequest.Method.GET;
public class RestGetBasicStatus extends XPackRestHandler {
RestGetBasicStatus(Settings settings, RestController controller) {
super(settings);
controller.registerHandler(GET, URI_BASE + "/license/basic_status", this);
}
@Override
protected RestChannelConsumer doPrepareRequest(RestRequest request, XPackClient client) throws IOException
{
return channel -> client.licensing().prepareGetStartBasic().execute(
new RestBuilderListener<GetBasicStatusResponse>(channel) {
@Override
public RestResponse buildResponse(GetBasicStatusResponse response, XContentBuilder builder)
throws Exception {
builder.startObject();
builder.field("eligible_to_start_basic", response.isEligibleToStartBasic());
builder.endObject();
return new BytesRestResponse(RestStatus.OK, builder);
}
});
}
@Override
public String getName() {
return "xpack_basic_status_action";
}
}

Open Source Used In Application Centric Infrastructure Service Engine (ACI-SE) 1.1
7778


package org.elasticsearch.license;

import org.elasticsearch.action.ActionRequestValidationException;
import org.elasticsearch.action.support.master.AcknowledgedRequest;
import org.elasticsearch.common.io.stream.StreamInput;
import org.elasticsearch.common.io.stream.StreamOutput;
import java.io.IOException;

public class DeleteLicenseRequest extends AcknowledgedRequest<DeleteLicenseRequest> {

    public DeleteLicenseRequest() {
    }

    @Override
    public ActionRequestValidationException validate() {
        return null;
    }

    @Override
    public void readFrom(StreamInput in) throws IOException {
        super.readFrom(in);
    }

    @Override
    public void writeTo(StreamOutput out) throws IOException {
        super.writeTo(out);
    }
}

package org.elasticsearch.license;

import org.apache.logging.log4j.Logger;
import org.apache.logging.log4j.message.ParameterizedMessage;
import org.apache.logging.log4j.util.Supplier;
import org.elasticsearch.Version;
import org.elasticsearch.cluster.ClusterState;
import org.elasticsearch.cluster.ClusterStateUpdateTask;
import org.elasticsearch.action.ActionRequestValidationException;
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    public ActionRequestValidationException validate() {
        return null;
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    }

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        super.readFrom(in);
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    public DeleteLicenseRequest() {
    }

    @Override
    public ActionRequestValidationException validate() {
        return null;
    }

    @Override
    public void readFrom(StreamInput in) throws IOException {
        super.readFrom(in);
    }

    @Override
    public void writeTo(StreamOutput out) throws IOException {
        super.writeTo(out);
    }
}
import org.elasticsearch.cluster.metadata.MetaData;
import org.elasticsearch.cluster.service.ClusterService;
import org.elasticsearch.common.Nullable;
import org.elasticsearch.cluster.service.ClusterService;
import org.elasticsearch.common.logging.Loggers;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.xpack.core.XPackPlugin;
import java.time.Clock;
import java.util.UUID;

public class StartupSelfGeneratedLicenseTask extends ClusterStateUpdateTask {

    /**
     * Max number of nodes licensed by generated trial license
     */
    private int selfGeneratedLicenseMaxNodes = 1000;

    private final Settings settings;
    private final Clock clock;
    private final ClusterService clusterService;
    private final Logger logger;

    public StartupSelfGeneratedLicenseTask(Settings settings, Clock clock, ClusterService clusterService) {
        this.settings = settings;
        this.clock = clock;
        this.clusterService = clusterService;
        this.logger = Loggers.getLogger(getClass(), settings);
    }

    @Override
    public void clusterStateProcessed(String source, ClusterState oldState, ClusterState newState) {
        LicensesMetaData licensesMetaData = newState.metaData().custom(LicensesMetaData.TYPE);
        if (logger.isDebugEnabled()) {
            logger.debug("registered self generated license: ", licensesMetaData);
        }
    }

    @Override
    public ClusterState execute(ClusterState currentState) throws Exception {
        XPackPlugin.checkReadyForXPackCustomMetadata(currentState);
        final MetaData metaData = currentState.metaData();
        final LicensesMetaData currentLicensesMetaData = metaData.custom(LicensesMetaData.TYPE);
        // do not generate a license if any license is present
        if (currentLicensesMetaData != null) {
            String type = LicenseService.SELFGENERATED_LICENSE_TYPE.get(settings);
            if (SelfGeneratedLicense.isValidSelfGeneratedType(type) == false) {
                throw new IllegalArgumentException("Illegal self generated license type [" + type + "] Must be trial or basic.");
            }
        }
    }
}
return updateWithLicense(currentState, type);
} else if (LicenseUtils.licenseNeedsExtended(currentLicensesMetaData.getLicense())) {
    return extendBasic(currentState, currentLicensesMetaData);
} else {
    return currentState;
}

@Override
public void onFailure(String source, @Nullable Exception e) {
    logger.error((Supplier<?>) () -> new ParameterizedMessage("unexpected failure during ", source), e);
}

private ClusterState extendBasic(ClusterState currentState, LicensesMetaData currentLicenseMetadata) {
    License license = currentLicenseMetaData.getLicense();
    MetaData.Builder mdBuilder = MetaData.builder(currentState.metaData());
    LicensesMetaData newLicenseMetaData = createBasicLicenseFromExistingLicense(currentLicenseMetadata);
    mdBuilder.putCustom(LicensesMetaData.TYPE, newLicenseMetaData);
    logger.info("Existing basic license has an expiration. Basic licenses no longer expire.
             Regenerating license.
             Old license:
             {}
             New license:
             ", license,
    newLicenseMetaData.getLicense());
    return ClusterState.builder(currentState).metaData(mdBuilder).build();
}

private LicensesMetaData createBasicLicenseFromExistingLicense(LicensesMetaData currentLicenseMetadata) {
    License currentLicense = currentLicenseMetadata.getLicense();
    License.Builder specBuilder = License.builder()
        .uid(currentLicense.uid())
        .issuedTo(currentLicense.issuedTo())
        .maxNodes(selfGeneratedLicenseMaxNodes)
        .issueDate(currentLicense.issueDate())
        .type("basic")
        .expiryDate(LicenseService.BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS);
    License selfGeneratedLicense = SelfGeneratedLicense.create(specBuilder);
    Version trialVersion = currentLicenseMetaData.getMostRecentTrialVersion();
    return new LicensesMetaData(selfGeneratedLicense, trialVersion);
}

private ClusterState updateWithLicense(ClusterState currentState, String type) {
    long issueDate = clock.millis();
    MetaData.Builder mdBuilder = MetaData.builder(currentState.metaData());
    long expiryDate;
    if ("basic".equals(type)) {
        expiryDate = LicenseService.BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS;
    } else {
        expiryDate = issueDate +
    
}
LicenseService.NON_BASIC_SELF_GENERATED_LICENSE_DURATION.getMillis();
}
License.Builder specBuilder = License.builder()
  .uid(UUID.randomUUID().toString())
  .issuedTo(clusterService.getClusterName().value())
  .maxNodes(selfGeneratedLicenseMaxNodes)
  .issueDate(issueDate)
  .type(type)
  .expiryDate(expiryDate);
License selfGeneratedLicense = SelfGeneratedLicense.create(specBuilder);
LicensesMetaData licensesMetaData;
if ("trial".equals(type)) {
  licensesMetaData = new LicensesMetaData(selfGeneratedLicense, Version.CURRENT);
} else {
  licensesMetaData = new LicensesMetaData(selfGeneratedLicense, null);
}
mdBuilder.putCustom(LicensesMetaData.TYPE, licensesMetaData);
return ClusterState.builder(currentState).metaData(mdBuilder).build();
}
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 * or more contributor license agreements. Licensed under the Elastic License;
 * you may not use this file except in compliance with the Elastic License.
 */
package org.elasticsearch.license;
import org.elasticsearch.action.support.master.AcknowledgedResponse;
import org.elasticsearch.common.io.stream.StreamInput;
import org.elasticsearch.common.io.stream.StreamOutput;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.rest.RestStatus;
import java.io.IOException;
import java.util.Collections;
import java.util.HashMap;
import java.util.Map;
import static org.elasticsearch.license.PostStartBasicResponse.Status.NEED_ACKNOWLEDGEMENT;
class PostStartBasicResponse extends AcknowledgedResponse {
  private Map<String, String[]> acknowledgeMessages;
  private String acknowledgeMessage;
  enum Status {
    GENERATED_BASIC(true, null, RestStatus.OK),
    ALREADY_USING_BASIC(false, "Operation failed: Current license is basic.", RestStatus.FORBIDDEN),
  }
private final boolean isBasicStarted;
private final String errorMessage;
private final RestStatus restStatus;

Status(boolean isBasicStarted, String errorMessage, RestStatus restStatus) {
    this.isBasicStarted = isBasicStarted;
    this.errorMessage = errorMessage;
    this.restStatus = restStatus;
}

boolean isBasicStarted() {
    return isBasicStarted;
}

String getErrorMessage() {
    return errorMessage;
}

RestStatus getRestStatus() {
    return restStatus;
}

private Status status;

PostStartBasicResponse() {
}

PostStartBasicResponse(Status status) {
    this(status, Collections.emptyMap(), null);
}

PostStartBasicResponse(Status status, Map<String, String[]> acknowledgeMessages, String acknowledgeMessage) {
    super(status != NEED_ACKNOWLEDGEMENT);
    this.status = status;
    this.acknowledgeMessages = acknowledgeMessages;
    this.acknowledgeMessage = acknowledgeMessage;
}

public Status getStatus() {
    return status;
}

@Override
public void readFrom(StreamInput in) throws IOException {
    // Read data from StreamInput
}
super.readFrom(in);
readAcknowledged(in);
status = in.readEnum(Status.class);
acknowledgeMessage = in.readOptionalString();
int size = in.readVInt();
Map<String, String[]> acknowledgeMessages = new HashMap<>(size);
for (int i = 0; i < size; i++) {
    String feature = in.readString();
    int nMessages = in.readVInt();
    String[] messages = new String[nMessages];
    for (int j = 0; j < nMessages; j++) {
        messages[j] = in.readString();
    }
    acknowledgeMessages.put(feature, messages);
}
this.acknowledgeMessages = acknowledgeMessages;

@Override
public void writeTo(StreamOutput out) throws IOException {
    super.writeTo(out);
    writeAcknowledged(out);
    out.writeEnum(status);
    out.writeOptionalString(acknowledgeMessage);
    out.writeVInt(acknowledgeMessages.size());
    for (Map.Entry<String, String[]> entry : acknowledgeMessages.entrySet()) {
        out.writeString(entry.getKey());
        out.writeVInt(entry.getValue().length);
        for (String message : entry.getValue()) {
            out.writeString(message);
        }
    }
}

@Override
protected void addCustomFields(XContentBuilder builder, Params params) throws IOException {
    if (status.isBasicStarted()) {
        builder.field("basic_was_started", true);
    } else {
        builder.field("basic_was_started", false);
        builder.field("error_message", status.getErrorMessage());
    }
    if (acknowledgeMessages.isEmpty() == false) {
        builder.startObject("acknowledge");
        builder.field("message", acknowledgeMessage);
        for (Map.Entry<String, String[]> entry : acknowledgeMessages.entrySet()) {
            builder.startArray(entry.getKey());
            for (String message : entry.getValue()) {
                builder.startObject();
                builder.field("message", message);
                builder.endObject();
            }
            builder.endArray();
        }
        builder.endObject();
    }
}
builder.value(message);
}
builder.endArray();
}
builder.endObject();
}
}

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* you may not use this file except in compliance with the Elastic License.
*/

package org.elasticsearch.license;

import org.elasticsearch.common.joda.FormatDateTimeFormatter;
import org.elasticsearch.common.joda.Joda;
import org.joda.time.MutableDateTime;
import org.joda.time.format.DateTimeFormatter;
import org.joda.time.format.ISODateTimeFormat;

public class DateUtils {

private static final FormatDateTimeFormatter formatDateOnlyFormatter = Joda.forPattern("yyyy-MM-dd");

private static final DateTimeFormatter dateOnlyFormatter = formatDateOnlyFormatter.parser().withZoneUTC();
private static final DateTimeFormatter dateTimeFormatter = ISODateTimeFormat.dateTime().withZoneUTC();

public static long endOfTheDay(String date) {
    try {
        // Try parsing using complete date/time format
        return dateTimeFormatter.parseDateTime(date).getMillis();
    } catch (IllegalArgumentException ex) {
        // Fall back to the date only format
        MutableDateTime dateTime = dateOnlyFormatter.parseMutableDateTime(date);
        dateTime.millisOfDay().set(dateTime.millisOfDay().getMaximumValue());
        return dateTime.getMillis();
    }
}

public static long beginningOfTheDay(String date) {
    try {
        // Try parsing using complete date/time format
        return dateTimeFormatter.parseDateTime(date).getMillis();
    } catch (IllegalArgumentException ex) {
        // Fall back to the date only format
        return dateOnlyFormatter.parseDateTime(date).getMillis();
    }
}
package org.elasticsearch.license;

import org.elasticsearch.action.support.master.AcknowledgedRequestBuilder;
import org.elasticsearch.client.ElasticsearchClient;

public class DeleteLicenseRequestBuilder extends AcknowledgedRequestBuilder<DeleteLicenseRequest, DeleteLicenseResponse, DeleteLicenseRequestBuilder> {
    public DeleteLicenseRequestBuilder(ElasticsearchClient client) {
        this(client, DeleteLicenseAction.INSTANCE);
    }

    public DeleteLicenseRequestBuilder(ElasticsearchClient client, DeleteLicenseAction action) {
        super(client, action, new DeleteLicenseRequest());
    }

    /**
     * Creates a new get licenses request builder
     *
     * @param client elasticsearch client
     */
    public DeleteLicenseRequestBuilder(ElasticsearchClient client, DeleteLicenseAction action) {
        super(client, action, new DeleteLicenseRequest());
    }

    public enum LicensesStatus {
        VALID((byte) 0),
        INVALID((byte) 1),
        EXPIRED((byte) 2);
    }

    private final byte id;

    LicensesStatus(byte id) {
        this.id = id;
    }
```java
public int id() {
    return id;
}

public static LicensesStatus fromId(int id) {
    if (id == 0) {
        return VALID;
    } else if (id == 1) {
        return INVALID;
    } else if (id == 2) {
        return EXPIRED;
    } else {
        throw new IllegalStateException("no valid LicensesStatus for id=" + id);
    }
}

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*/

/** 
* Licensing for xpack. 
* 
* A {@link org.elasticsearch.license.License} is a signed set of json properties that determine what features 
* are available in a running cluster. Licenses are registered through a 
* {@link org.elasticsearch.license.PutLicenseRequest}. This action is handled by the master node, which places 
* the signed license into the cluster state. Each node listens for cluster state updates via the 
* {@link org.elasticsearch.license.LicenseService}, and updates its local copy of the license when it detects 
* changes in the cluster state. 
* 
* The logic for which features are available given the current license is handled by 
* {@link org.elasticsearch.license.XPackLicenseState}, which is updated by the 
* {@link org.elasticsearch.license.LicenseService} when the license changes. 
*/
package org.elasticsearch.license;

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*/
package org.elasticsearch.license;

import org.elasticsearch.ElasticsearchException;
import org.elasticsearch.action.ActionListener;
import org.elasticsearch.action.support.ActionFilters;
```
import org.elasticsearch.action.support.master.TransportMasterNodeAction;
import org.elasticsearch.cluster.service.ClusterService;
import org.elasticsearch.cluster.ClusterState;
import org.elasticsearch.cluster.block.ClusterBlockException;
import org.elasticsearch.cluster.block.ClusterBlockLevel;
import org.elasticsearch.cluster.metadata.IndexNameExpressionResolver;
import org.elasticsearch.common.inject.Inject;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.threadpool.ThreadPool;
import org.elasticsearch.transport.TransportService;

public class TransportPutLicenseAction extends TransportMasterNodeAction<PutLicenseRequest,
PutLicenseResponse> {

    private final LicenseService licenseService;

    @Inject
    public TransportPutLicenseAction(Settings settings, TransportService transportService, ClusterService
clusterService,
            LicenseService licenseService, ThreadPool threadPool, ActionFilters actionFilters,
IndexNameExpressionResolver indexNameExpressionResolver) {
        super(settings, PutLicenseAction.NAME, transportService, clusterService, threadPool, actionFilters,
IndexNameExpressionResolver,
            PutLicenseRequest::new);
        this.licenseService = licenseService;
    }

    @Override
    protected String executor() {
        return ThreadPool.Names.MANAGEMENT;
    }

    @Override
    protected PutLicenseResponse newResponse() {
        return new PutLicenseResponse();
    }

    @Override
    protected ClusterBlockException checkBlock(PutLicenseRequest request, ClusterState state) {
        return state.blocks().globalBlockedException(ClusterBlockLevel.METADATA_WRITE);
    }

    @Override
    protected void masterOperation(final PutLicenseRequest request, ClusterState state, final
ActionListener<PutLicenseResponse>
            listener) throws ElasticsearchException {
        licenseService.registerLicense(request, listener);
    }
package org.elasticsearch.license;

import org.elasticsearch.action.ActionRequestBuilder;
import org.elasticsearch.client.ElasticsearchClient;

class PostStartBasicRequestBuilder extends ActionRequestBuilder<PostStartBasicRequest, PostStartBasicResponse, PostStartBasicRequestBuilder> {
    PostStartBasicRequestBuilder(ElasticsearchClient client, PostStartBasicAction action) {
        super(client, action, new PostStartBasicRequest());
    }

    public PostStartBasicRequestBuilder setAcknowledge(boolean acknowledge) {
        request.acknowledge(acknowledge);
        return this;
    }
}

class GetTrialStatusResponse extends ActionResponse {
    private boolean eligibleToStartTrial;

    GetTrialStatusResponse() {
    }

    GetTrialStatusResponse(boolean eligibleToStartTrial) {
        this.eligibleToStartTrial = eligibleToStartTrial;
    }
}
boolean isEligibleToStartTrial() {
    return eligibleToStartTrial;
}

@Override
public void readFrom(StreamInput in) throws IOException {
    eligibleToStartTrial = in.readBoolean();
}

@Override
public void writeTo(StreamOutput out) throws IOException {
    out.writeBoolean(eligibleToStartTrial);
}

private static final String ACKNOWLEDGEMENT_HEADER = "This API initiates a free 30-day trial for all platinum features. "+
    "By starting this trial, you agree that it is subject to the terms and conditions at” +
    "https://www.elastic.co/legal/trial_license/. To begin your free trial, call /start_trial again and specify " +
    "the \"acknowledge=true\" parameter.”;

private static final Map<String, String[]> ACK_MESSAGES = Collections.singletonMap("security",
    new String[] {""});
new String[] { "With a trial license, X-Pack security features are available, but are not enabled by default." });

private final Logger logger;
private final String clusterName;
private final PostStartTrialRequest request;
private final ActionListener<PostStartTrialResponse> listener;
private final Clock clock;

StartTrialClusterTask(Logger logger, String clusterName, Clock clock, PostStartTrialRequest request,
    ActionListener<PostStartTrialResponse> listener) {
    this.logger = logger;
    this.clusterName = clusterName;
    this.request = request;
    this.listener = listener;
    this.clock = clock;
}

@Override
public void clusterStateProcessed(String source, ClusterState oldState, ClusterState newState) {
    LicensesMetaData oldLicensesMetaData = oldState.metaData().custom(LicensesMetaData.TYPE);
    logger.debug("started self generated trial license: {}", oldLicensesMetaData);

    if (request.isAcknowledged() == false)
        listener.onResponse(new PostStartTrialResponse(PostStartTrialResponse.Status.NEED_ACKNOWLEDGEMENT,
            ACK_MESSAGES, ACKNOWLEDGEMENT_HEADER));
    else if (oldLicensesMetaData == null || oldLicensesMetaData.isEligibleForTrial())
        listener.onResponse(new PostStartTrialResponse(PostStartTrialResponse.Status.UPGRADED_TO_TRIAL));
    else
        listener.onResponse(new PostStartTrialResponse(PostStartTrialResponse.Status.TRIAL_ALREADY_ACTIVATED));
}

@Override
public ClusterState execute(ClusterState currentState) throws Exception {
    XPackPlugin.checkReadyForXPackCustomMetadata(currentState);
    LicensesMetaData currentLicensesMetaData = currentState.metaData().custom(LicensesMetaData.TYPE);

    if (request.isAcknowledged() == false)
        return currentState;
    else if (currentLicensesMetaData == null || currentLicensesMetaData.isEligibleForTrial())
        long issueDate = clock.millis();
        long expiryDate = issueDate + LicenseService.NON_BASIC_SELF_GENERATED_LICENSE_DURATION.getMillis();
        License.Builder specBuilder = License.builder()
License selfGeneratedLicense = SelfGeneratedLicense.create(specBuilder);
LicensesMetaData newLicensesMetaData = new LicensesMetaData(selfGeneratedLicense, Version.CURRENT);
    mdBuilder.putCustom(LicensesMetaData.TYPE, newLicensesMetaData);
    return ClusterState.builder(currentState).metaData(mdBuilder).build();
} else {
    return currentState;
}
}

@Override
public void onFailure(String source, @Nullable Exception e) {
    logger.error(new ParameterizedMessage("unexpected failure during [{ }]", source), e);
    listener.onFailure(e);
}

package org.elasticsearch.license;
import org.elasticsearch.action.ActionRequestValidationException;
import org.elasticsearch.action.support.master.AcknowledgedRequest;
import org.elasticsearch.common.io.stream.StreamInput;
import org.elasticsearch.common.io.stream.StreamOutput;
import java.io.IOException;
public class PostStartBasicRequest extends AcknowledgedRequest<PostStartBasicRequest> {
    private boolean acknowledge = false;

    @Override
    public ActionRequestValidationException validate() {
        return null;
    }

    public PostStartBasicRequest acknowledge(boolean acknowledge) {
        this.acknowledge = acknowledge;
        return this;
    }

    public PostStartBasicRequest acknowledge(boolean acknowledge) {
        this.acknowledge = acknowledge;
        return this;
    }

    import org.elasticsearch.action.ActionRequestValidationException;
    import org.elasticsearch.action.support.master.AcknowledgedRequest;
    import org.elasticsearch.common.io.stream.StreamInput;
    import org.elasticsearch.common.io.stream.StreamOutput;

    import java.io.IOException;
    public class PostStartBasicRequest extends AcknowledgedRequest<PostStartBasicRequest> {
        private boolean acknowledge = false;

        @Override
        public ActionRequestValidationException validate() {
            return null;
        }

        public PostStartBasicRequest acknowledge(boolean acknowledge) {
            this.acknowledge = acknowledge;
            return this;
        }

        public PostStartBasicRequest acknowledge(boolean acknowledge) {
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        import org.elasticsearch.action.ActionRequestValidationException;
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        import org.elasticsearch.common.io.stream.StreamInput;
        import org.elasticsearch.common.io.stream.StreamOutput;

        import java.io.IOException;
        public class PostStartBasicRequest extends AcknowledgedRequest<PostStartBasicRequest> {
            private boolean acknowledge = false;

            @Override
            public ActionRequestValidationException validate() {
                return null;
            }

            public PostStartBasicRequest acknowledge(boolean acknowledge) {
                this.acknowledge = acknowledge;
                return this;
            }

            public PostStartBasicRequest acknowledge(boolean acknowledge) {
                this.acknowledge = acknowledge;
                return this;
            }

            import org.elasticsearch.action.ActionRequestValidationException;
            import org.elasticsearch.action.support.master.AcknowledgedRequest;
            import org.elasticsearch.common.io.stream.StreamInput;
            import org.elasticsearch.common.io.stream.StreamOutput;

            import java.io.IOException;
            public class PostStartBasicRequest extends AcknowledgedRequest<PostStartBasicRequest> {
                private boolean acknowledge = false;

                @Override
                public ActionRequestValidationException validate() {
                    return null;
                }

                public PostStartBasicRequest acknowledge(boolean acknowledge) {
                    this.acknowledge = acknowledge;
                    return this;
                }

                public PostStartBasicRequest acknowledge(boolean acknowledge) {
                    this.acknowledge = acknowledge;
                    return this;
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            import org.elasticsearch.action.support.master.AcknowledgedRequest;
            import org.elasticsearch.common.io.stream.StreamInput;
            import org.elasticsearch.common.io.stream.StreamOutput;

            import java.io.IOException;
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                @Override
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                    return null;
                }

                public PostStartBasicRequest acknowledge(boolean acknowledge) {
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                    return this;
                }

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                    this.acknowledge = acknowledge;
                    return this;
                }

            import org.elasticsearch.action.ActionRequestValidationException;
            import org.elasticsearch.action.support.master.AcknowledgedRequest;
            import org.elasticsearch.common.io.stream.StreamInput;
            import org.elasticsearch.common.io.stream.StreamOutput;

            import java.io.IOException;
            public class PostStartBasicRequest extends AcknowledgedRequest<PostStartBasicRequest> {
                private boolean acknowledge = false;

                @Override
                public ActionRequestValidationException validate() {
                    return null;
                }

                public PostStartBasicRequest acknowledge(boolean acknowledge) {
                    this.acknowledge = acknowledge;
                    return this;
                }

                public PostStartBasicRequest acknowledge(boolean acknowledge) {
                    this.acknowledge = acknowledge;
                    return this;
                }

            import org.elasticsearch.action.ActionRequestValidationException;
            import org.elasticsearch.action.support.master.AcknowledgedRequest;
            import org.elasticsearch.common.io.stream.StreamInput;
            import org.elasticsearch.common.io.stream.StreamOutput;

            import java.io.IOException;
            public class PostStartBasicRequest extends AcknowledgedRequest<PostStartBasicRequest> {
                private boolean acknowledge = false;

                @Override
                public ActionRequestValidationException validate() {
                    return null;
                }

                public PostStartBasicRequest acknowledge(boolean acknowledge) {
                    this.acknowledge = acknowledge;
                    return this;
                }

                public PostStartBasicRequest acknowledge(boolean acknowledge) {
                    this.acknowledge = acknowledge;
                    return this;
                }

            import org.elasticsearch.action.ActionRequestValidationException;
            import org.elasticsearch.action.support.master.AcknowledgedRequest;
            import org.elasticsearch.common.io.stream.StreamInput;
            import org.elasticsearch.common.io.stream.StreamOutput;

            import java.io.IOException;
            public class PostStartBasicRequest extends AcknowledgedRequest<PostStartBasicRequest> {
                private boolean acknowledge = false;

                @Override
                public ActionRequestValidationException validate() {
                    return null;
                }

                public PostStartBasicRequest acknowledge(boolean acknowledge) {
                    this.acknowledge = acknowledge;
                    return this;
                }

                public PostStartBasicRequest acknowledge(boolean acknowledge) {
                    this.acknowledge = acknowledge;
                    return this;
                }

            import org.elasticsearch.action.ActionRequestValidationException;
            import org.elasticsearch.action.support.master.AcknowledgedRequest;
            import org.elasticsearch.common.io.stream.StreamInput;
            import org.elasticsearch.common.io.stream.StreamOutput;

            import java.io.IOException;
            public class PostStartBasicRequest extends AcknowledgedRequest<PostStartBasicRequest> {
                private boolean acknowledge = false;

                @Override
                public ActionRequestValidationException validate() {
                    return null;
                }

                public PostStartBasicRequest acknowledge(boolean acknowledge) {
public boolean isAcknowledged() {
    return acknowledge;
}

@Override
public void readFrom(StreamInput in) throws IOException {
    super.readFrom(in);
    acknowledge = in.readBoolean();
}

@Override
public void writeTo(StreamOutput out) throws IOException {
    super.writeTo(out);
    out.writeBoolean(acknowledge);
}

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 */
package org.elasticsearch.license;

import org.elasticsearch.action.ActionResponse;
import org.elasticsearch.common.io.stream.StreamInput;
import org.elasticsearch.common.io.stream.StreamOutput;
import java.io.IOException;

class GetBasicStatusResponse extends ActionResponse {

    private boolean eligibleToStartBasic;

    GetBasicStatusResponse() {
    }

    GetBasicStatusResponse(boolean eligibleToStartBasic) {
        this.eligibleToStartBasic = eligibleToStartBasic;
    }

    boolean isEligibleToStartBasic() {
        return eligibleToStartBasic;
    }

    @Override
    public void readFrom(StreamInput in) throws IOException {

eligibleToStartBasic = in.readBoolean();
}

@Override
public void writeTo(StreamOutput out) throws IOException {
    out.writeBoolean(eligibleToStartBasic);
}

package org.elasticsearch.license;

import org.elasticsearch.common.logging.LoggerMessageFormat;
import org.elasticsearch.common.unit.TimeValue;
import org.elasticsearch.xpack.core.scheduler.SchedulerEngine;
import java.util.UUID;

abstract class ExpirationCallback {

    static final String EXPIRATION_JOB_PREFIX = ".license_expiration_job_";

    public enum Orientation {PRE, POST}

    /**
     * Callback that is triggered every <code>frequency</code> when
     * current time is between <code>max</code> and <code>min</code>
     * before license expiry.
     */
    public abstract static class Pre extends ExpirationCallback {

        /**
         * Callback schedule prior to license expiry
         *
         * @param min latest relative time to execute before license expiry
         * @param max earliest relative time to execute before license expiry
         * @param frequency interval between execution
         */
        Pre(TimeValue min, TimeValue max, TimeValue frequency) {
            super(Orientation.PRE, min, max, frequency);
        }
    }

    /**
     * Callback that is triggered every <code>frequency</code> when
public abstract static class Post extends ExpirationCallback {

   /**
    * Callback schedule after license expiry
    *
    * @param min       earliest relative time to execute after license expiry
    * @param max       latest relative time to execute after license expiry
    * @param frequency interval between execution
    */
   Post(TimeValue min, TimeValue max, TimeValue frequency) {
      super(Orientation.POST, min, max, frequency);
   }
}

private final String id;
private final Orientation orientation;
private final long min;
private final long max;
private final long frequency;

private ExpirationCallback(Orientation orientation, TimeValue min, TimeValue max, TimeValue frequency) {
   this.orientation = orientation;
   this.min = (min == null) ? 0 : min.getMillis();
   this.max = (max == null) ? Long.MAX_VALUE : max.getMillis();
   this.frequency = frequency.getMillis();
   this.id = String.join(",", EXPIRATION_JOB_PREFIX, UUID.randomUUID().toString());
}

public final String getId() {
   return id;
}

public final long getFrequency() {
   return frequency;
}

/**
 * Calculates the delay for the next trigger time. When <code>now</code> is in a
 * valid time bracket with respect to <code>expirationDate</code>, the delay is 0.
 * When <code>now</code> is before the time bracket, than delay to the start of the
 * time bracket and when <code>now</code> is passed the valid time bracket, the delay
 * is <code>null</code>
 *
 * @param expirationDate license expiry date in milliseconds
 * @param now current time in milliseconds
 * @return time delay
*/
/

final TimeValue delay(long expirationDate, long now) {
    final TimeValue delay;
    switch (orientation) {
        case PRE:
            if (expirationDate >= now) {
                // license not yet expired
                long preExpiryDuration = expirationDate - now;
                if (preExpiryDuration > max) {
                    // license duration is longer than maximum duration, delay it to the first match time
                    delay = TimeValue.timeValueMillis(preExpiryDuration - max);
                } else if (preExpiryDuration <= max && preExpiryDuration >= min) {
                    // no delay in valid time bracket
                    delay = TimeValue.timeValueMillis(0);
                } else {
                    // passed last match time
                    delay = null;
                }
            } else {
                // invalid after license expiry
                delay = null;
            }
            break;
        case POST:
            if (expirationDate >= now) {
                // license not yet expired, delay it to the first match time
                delay = TimeValue.timeValueMillis(expirationDate - now + min);
            } else {
                // license has expired
                long expiredDuration = now - expirationDate;
                if (expiredDuration < min) {
                    // license expiry duration is shorter than minimum duration, delay it to the first match time
                    delay = TimeValue.timeValueMillis(min - expiredDuration);
                } else if (expiredDuration >= min && expiredDuration <= max) {
                    // no delay in valid time bracket
                    delay = TimeValue.timeValueMillis(0);
                } else {
                    // passed last match time
                    delay = null;
                }
            } break;
        default:
            throw new IllegalStateException("orientation [" + orientation + "] unknown");
    }
    return delay;
}
public final long nextScheduledTimeForExpiry(long expiryDate, long startTime, long time) {
    TimeValue delay = delay(expiryDate, time);
    if (delay != null) {
        long delayInMillis = delay.getMillis();
        if (delayInMillis == 0L) {
            if (startTime == time) {
                // initial trigger and in time bracket, schedule immediately
                return time;
            } else {
                // in time bracket, add frequency
                return time + frequency;
            }
        } else {
            // not in time bracket
            return time + delayInMillis;
        }
    } else {
        // not in time bracket
        return time + delayInMillis;
    }
    return -1;
}

/*
 * Code to execute when the expiry callback is triggered in a valid
 * time bracket
 * @param license license to operate on
 */
public abstract void on(License license);

public final String toString() {
    return LoggerMessageFormat.format(null, "ExpirationCallback:(orientation [{}],  min [{}], max [{}], freq
    [{}])",
    orientation.name(), TimeValue.timeValueMillis(min), TimeValue.timeValueMillis(max),
    TimeValue.timeValueMillis(frequency));
}

"metadata": {
    "name": "X-Pack Monitoring: License Expiration",
    "xpack": {
        "link": "license",
        "expires_days": [ 60, 30, 14, 7 ],
        "severity": 0,
        "alert_index": ".monitoring-alerts-6",
        "cluster_uuid": "/{monitoring.watch.cluster_uuid}",
        "type": "monitoring"}
"version_created": 6020099,
"watch": "${monitoring.watch.id}"
],
"trigger": {
  "schedule": {
    "interval": "1m"
  }
],
"input": {
  "chain": {
    "inputs": [
      {
        "check": {
          "search": {
            "request": {
              "indices": [
                ".monitoring-es-*"
              ],
              "body": {
                "size": 1,
                "sort": [
                  {
                    "timestamp": {
                      "order": "desc"
                    }
                  }
                ],
                ",_source": [
                  "license.*"
                ],
                "query": {
                  "bool": {
                    "filter": [
                      {
                        "term": {
                          "cluster_uuid": "{{ctx.metadata.xpack.cluster_uuid}}"
                        }
                      },
                      {
                        "term": {
                          "type": "cluster_stats"
                        }
                      },
                      {
                        "range": {
                          "timestamp": {
                            "gte": "now-2m"
                          }
                        }
                      }
                    ]
                  }
                }
              }
            }
          }
        }
      }
    ]
  }
}
{ "alert": { 
 "search": { 
 "request": { 
 "indices": [ 
 ".monitoring-alerts-6" 
 ], 
 "body": { 
 "size": 1, 
 "terminate_after": 1, 
 "query": { 
 "bool": { 
 "filter": { 
 "term": { 
 "_id": "{ctx.watch_id}" 
 } 
 } 
 } 
 }, 
 "sort": [ 
 { "timestamp": { "order": "desc" } } 
 ] 
 } 
 } 
 }, 
 "kibana_settings": { 
 "search": { 
 "request": { 
 "indices": [ 
 ".monitoring-kibana-6-*" 
 ], 
 "body": { 
 "size": 1, 
 "query": { 
} 
} 
} 
} 
}
"bool": {
"filter": {
"term": {
"type": "kibana_settings"
}
}
}
},
"sort": [
{
"timestamp": {
"order": "desc"
}
}
]
]
]
"condition": {
"script": {
"source": "if (ctx.payload.check.hits.total == 0) {return false;}def license = ctx.payload.check.hits.hits[0]._source.license;if (license == null) {return false;}ctx.vars.fails_check = false;Instant expiry = Instant.ofEpochMilli(license.expiry_date_in_millis);ctx.vars.expiry = expiry;if (license.status != 'active') {ctx.vars.expired = true;ctx.vars.fails_check = true;ctx.metadata.xpack.severity = 2001;} else {Instant now = Instant.ofEpochMilli(new Date().getTime());ctx.vars.now = now;for (int i = ctx.metadata.xpack.expires_days.length - 1; i > -1; --i) {if (license.type == 'trial' & & i < 2) {break;}}}Instant fromNow = now.plusSeconds(ctx.metadata.xpack.expires_days[i] * 24 * 60 * 60);if (fromNow.isAfter(expiry)) {ctx.vars.fails_check = true;ctx.metadata.xpack.severity = i * 1000;break;} ctx.vars.not_resolved = (ctx.payload.alert.hits.total == 1 && ctx.payload.alert.hits.hits[0]._source.resolved_timestamp == null);ctx.vars.update = ctx.vars.fails_check || ctx.vars.not_resolved;"
}
],
"transform": {
"script": {
"source": "ctx.vars.email_recipient = (ctx.payload.kibana_settings.hits.total > 0) ?
ctx.payload.kibana_settings.hits.hits[0]._source.kibana_settings.xpack.default_admin_email : null;ctx.vars.is_new =
ctx.vars.fails_check && !ctx.vars.not_resolved;ctx.vars.is_resolved = !ctx.vars.fails_check & &
ctx.vars.not_resolved;def alertMessage = null;if (ctx.vars.fails_check) { alertMessage = 'Update your license.';} if
(ctx.vars.not_resolved) { ctx.payload = ctx.payload.alert.hits.hits[0]._source;ctx.payload.metadata =
ctx.metadata.xpack;if (ctx.vars.fails_check == false) { ctx.payload.resolved_timestamp = ctx.execution_time; } } else { ctx.payload = { 'timestamp': ctx.execution_time, 'prefix': 'This cluster\'s license is going to expire in
{ {{ relativeTime}} metadata.time {{/relativeTime}} at {{ absoluteTime}} metadata.time{{/absoluteTime}},
'message': alertMessage, 'metadata': ctx.metadata.xpack };} if (ctx.vars.fails_check) { ctx.payload.metadata.time =

---

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ctx.vars.expiry.toString();} ctx.payload.update_timestamp = ctx.execution_time;return ctx.payload;
}
",
"actions": {
"add_to_alerts_index": {
"index": {
"index": ".monitoring-alerts-6",
"doc_type": "doc",
"doc_id": "${monitoring.watch.unique_id}"
}
},
"send_email_to_admin": {
"condition": {
"script": "return ctx.vars.email_recipient != null & & (ctx.vars.is_new || ctx.vars.is_resolved)"
},
"email": {
"to": "X-Pack Admin <{{ctx.vars.email_recipient}}>",
"from": "X-Pack Admin <{{ctx.vars.email_recipient}}>",
"subject": "{{#ctx.vars.is_new}}NEW{{/ctx.vars.is_new}}{{#ctx.vars.is_resolved}}RESOLVED{{/ctx.vars.is_resolved}}{{ctx.metadata.name}}",
"body": {
"text": "{{#ctx.vars.is_resolved}}This cluster alert has been resolved: {{/ctx.vars.is_resolved}} This cluster's license {{#ctx.vars.is_new}}is going to expire on {{ctx.payload.metadata.time}}{{/ctx.vars.is_new}}{{#ctx.vars.is_resolved}}was going to expire{{ctx.payload.metadata.time}}{{/ctx.vars.is_resolved}}.{{#ctx.vars.is_new}}{{ctx.payload.message}}{{/ctx.vars.is_new}}"
}
}
}
}
/*
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*/*
package org.elasticsearch.license;

import org.elasticsearch.ElasticsearchSecurityException;
import org.elasticsearch.action.support.PlainActionFuture;
import org.elasticsearch.client.transport.TransportClient;
import org.elasticsearch.cluster.ClusterState;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.unit.TimeValue;
import org.elasticsearch.common.xcontent.XContentType;
import org.elasticsearch.license.License.OperationMode;
import org.elasticsearch.rest.RestStatus;
import org.elasticsearch.test.junit.annotations.TestLogging;
import org.elasticsearch.transport.Transport;
import org.elasticsearch.xpack.core.TestXPackTransportClient;
import org.elasticsearch.xpack.core.XPackField;
import org.elasticsearch.xpack.core.ml.action.CloseJobAction;
import org.elasticsearch.xpack.core.ml.action.DeleteDatafeedAction;
import org.elasticsearch.xpack.core.ml.action.DeleteJobAction;
import org.elasticsearch.xpack.core.ml.action.GetDatafeedsStatsAction;
import org.elasticsearch.xpack.core.ml.action.GetJobsStatsAction;
import org.elasticsearch.xpack.core.ml.action.OpenJobAction;
import org.elasticsearch.xpack.core.ml.action.PutDatafeedAction;
import org.elasticsearch.xpack.core.ml.action.PutJobAction;
import org.elasticsearch.xpack.core.ml.action.StartDatafeedAction;
import org.elasticsearch.xpack.core.ml.action.StopDatafeedAction;
import org.elasticsearch.xpack.core.ml.client.MachineLearningClient;
import org.elasticsearch.xpack.core.ml.datafeed.DatafeedState;
import org.elasticsearch.xpack.core.ml.job.config.JobState;
import org.elasticsearch.persistent.PersistentTasksCustomMetaData;
import org.elasticsearch.xpack.ml.LocalStateMachineLearning;
import org.elasticsearch.xpack.ml.support.BaseMlIntegTestCase;
import org.junit.Before;
import java.util.Collections;
import static org.hamcrest.Matchers.containsString;
import static org.hamcrest.Matchers.hasItem;
import static org.hamcrest.Matchers.is;

@TestLogging("org.elasticsearch.xpack.ml.action:DEBUG")
public class MachineLearningLicensingTests extends BaseMlIntegTestCase {

    @Before
    public void resetLicensing() {
        enableLicensing();

        ensureStableCluster(1);
        ensureYellow();
    }
}
public void testMachineLearningPutJobActionRestricted() throws Exception {
    String jobId = "testmachinelearningputjobactionrestricted";
    // Pick a license that does not allow machine learning
    License.OperationMode mode = randomInvalidLicenseType();
    enableLicensing(mode);
    assertMLAllowed(false);
    // test that license restricted apis do not work
    Settings settings = internalCluster().transportClient().settings();
    try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
        client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress());
        PlainActionFuture<PutJobAction.Response> listener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).putJob(new PutJobAction.Request(createJob(jobId)), listener);
        listener.actionGet();
        fail("put job action should not be enabled!");
    } catch (ElasticsearchSecurityException e) {
        assertThat(e.status(), is(RestStatus.FORBIDDEN));
        assertThat(e.getMessage(), containsString("non-compliant"));
        assertThat(e.getMetadata(LicenseUtils.EXPIRED_FEATURE_METADATA), hasItem(XPackField.MACHINE_LEARNING));
    }
    // Pick a license that does allow machine learning
    mode = randomValidLicenseType();
    enableLicensing(mode);
    assertMLAllowed(true);
    // test that license restricted apis do now work
    try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
        client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress());
        PlainActionFuture<PutJobAction.Response> listener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).putJob(new PutJobAction.Request(createJob(jobId)), listener);
        PutJobAction.Response response = listener.actionGet();
        assertNotNull(response);
    }
}

public void testMachineLearningOpenJobActionRestricted() throws Exception {
    String jobId = "testmachinelearningopenjobactionrestricted";
    assertMLAllowed(true);
    // test that license restricted apis do now work
    Settings settings = internalCluster().transportClient().settings();
    try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
        client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress());
        PlainActionFuture<PutJobAction.Response> putJobListener = PlainActionFuture.newFuture();
new MachineLearningClient(client).putJob(new PutJobAction.Request(createJob(jobId)), putJobListener);
PutJobAction.Response response = putJobListener.actionGet();
assertNotNull(response);
}

// Pick a license that does not allow machine learning
License.OperationMode mode = randomInvalidLicenseType();
enableLicensing(mode);
assertMLAllowed(false);
// test that license restricted apis do not work
try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
    PlainActionFuture<OpenJobAction.Response> listener = PlainActionFuture.newFuture();
    new MachineLearningClient(client).openJob(new OpenJobAction.Request(jobId), listener);
    listener.actionGet();
    fail("open job action should not be enabled!");
} catch (ElasticsearchSecurityException e) {
    assertThat(e.status(), is(RestStatus.FORBIDDEN));
    assertThat(e.getMessage(), containsString("non-compliant");
    assertThat(e.getMetadata(LicenseUtils.EXPIRED_FEATURE_METADATA), hasItem(XPackField.MACHINE_LEARNING));
}

// Pick a license that does allow machine learning
mode = randomValidLicenseType();
enableLicensing(mode);
assertMLAllowed(true);

// now that the license is invalid, the job should get closed:
assertBusy(() -> {
    JobState jobState = getJobStats(jobId).getState();
    assertEquals(JobState.CLOSED, jobState);
});

// test that license restricted apis do now work
try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
    PlainActionFuture<OpenJobAction.Response> listener = PlainActionFuture.newFuture();
    new MachineLearningClient(client).openJob(new OpenJobAction.Request(jobId), listener);
    OpenJobAction.Response response = listener.actionGet();
    assertNotNull(response);
}

public void testMachineLearningPutDatafeedActionRestricted() throws Exception {
    String jobId = "testmachinelearningputdatafeedactionrestricted";
String datafeedId = jobId + "-datafeed";
assertMLAllowed(true);
// test that license restricted apis do now work
Settings settings = internalCluster().transportClient().settings();
try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
    client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress());
    PlainActionFuture<PutJobAction.Response> putJobListener = PlainActionFuture.newFuture();
    new MachineLearningClient(client).putJob(new PutJobAction.Request(createJob(jobId)), putJobListener);  
    PutJobAction.Response putJobResponse = putJobListener.actionGet();
    assertNotNull(putJobResponse);
}

// Pick a license that does not allow machine learning
License.OperationMode mode = randomInvalidLicenseType();
enableLicensing(mode);
assertMLAllowed(false);
// test that license restricted apis do not work
try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
    client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress());
    PlainActionFuture<PutDatafeedAction.Response> listener = PlainActionFuture.newFuture();
    new MachineLearningClient(client).putDatafeed(
        new PutDatafeedAction.Request(createDatafeed(datafeedId, jobId, Collections.singletonList(jobId))),
        listener);
    listener.actionGet();
    fail("put datafeed action should not be enabled!");
} catch (ElasticsearchSecurityException e) {
    assertThat(e.status(), is(RestStatus.FORBIDDEN));
    assertThat(e.getMessage(), containsString("non-compliant");
    assertThat(e.getMetadata(LicenseUtils.EXPIRED_FEATURE_METADATA), hasItem(XPackField.MACHINE_LEARNING));
}

// Pick a license that does allow machine learning
mode = randomValidLicenseType();
enableLicensing(mode);
assertMLAllowed(true);
// test that license restricted apis do now work
try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
    client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress());
    PlainActionFuture<PutDatafeedAction.Response> listener = PlainActionFuture.newFuture();
    new MachineLearningClient(client).putDatafeed(
        new PutDatafeedAction.Request(createDatafeed(datafeedId, jobId, Collections.singletonList(jobId))),
        listener);
    PutDatafeedAction.Response response = listener.actionGet();
    assertNotNull(response);
public void testAutoCloseJobWithDatafeed() throws Exception {
    String jobId = "testautocloselongjobwithdatafeed";
    String datafeedId = jobId + ".datafeed";
    assertMLAllowed(true);
    String datafeedIndex = jobId + ".data";
    prepareCreate(datafeedIndex).addMapping("type", ",\"properties\":\"time\":{\"type\":\"date\"}]}}", XContentType.JSON).get();
    Settings settings = internalCluster().transportClient().settings();
    try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
        client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress());
        // put job
        PlainActionFuture<PutJobAction.Response> putJobListener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).putJob(new PutJobAction.Request(createJob(jobId)), putJobListener);
        PutJobAction.Response putJobResponse = putJobListener.actionGet();
        assertNotNull(putJobResponse);
        // put datafeed
        PlainActionFuture<PutDatafeedAction.Response> putDatafeedListener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).putDatafeed(
            new PutDatafeedAction.Request(createDatafeed(datafeedId, jobId, Collections.singletonList(datafeedIndex))), putDatafeedListener);
        PutDatafeedAction.Response putDatafeedResponse = putDatafeedListener.actionGet();
        assertNotNull(putDatafeedResponse);
        // open job
        PlainActionFuture<OpenJobAction.Response> openJobListener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).openJob(new OpenJobAction.Request(jobId), openJobListener);
        OpenJobAction.Response openJobResponse = openJobListener.actionGet();
        assertNotNull(openJobResponse);
        // start datafeed
        PlainActionFuture<StartDatafeedAction.Response> listener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).startDatafeed(new StartDatafeedAction.Request(datafeedId, 0L), listener);
        listener.actionGet();
    }
    if (randomBoolean()) {
        enableLicensing(randomInvalidLicenseType());
    } else {
        disableLicensing();
    }
    assertMLAllowed(false);
    // now that the license is invalid, the job should be closed and datafeed stopped:
    assertBusy(() -> {
        JobState jobState = getJobStats(jobId).getState();
    });
}
assertEquals(JobState.CLOSED, jobState);

DatafeedState datafeedState = getDatafeedStats(datafeedId).getDatafeedState();
assertEquals(DatafeedState.STOPPED, datafeedState);

ClusterState state = client().admin().cluster().prepareState().get().getState();
PersistentTasksCustomMetaData tasks = state.metaData().custom(PersistentTasksCustomMetaData.TYPE);
assertEquals(0, tasks.taskMap().size());
}

enableLicensing(randomValidLicenseType());
assertMLAllowed(true);

try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
    client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress());
    // open job
    PlainActionFuture<OpenJobAction.Response> openJobListener = PlainActionFuture.newFuture();
    new MachineLearningClient(client).openJob(new OpenJobAction.Request(jobId), openJobListener);
    OpenJobAction.Response openJobResponse = openJobListener.actionGet();
    assertNotNull(openJobResponse);
    // start datafeed
    PlainActionFuture<StartDatafeedAction.Response> listener = PlainActionFuture.newFuture();
    new MachineLearningClient(client).startDatafeed(new StartDatafeedAction.Request(datafeedId, 0L),
        listener);
    listener.actionGet();
}

assertBusy(() -> {
    JobState jobState = getJobStats(jobId).getState();
    assertEquals(JobState.OPENED, jobState);

    DatafeedState datafeedState = getDatafeedStats(datafeedId).getDatafeedState();
    assertEquals(DatafeedState.STARTED, datafeedState);

    ClusterState state = client().admin().cluster().prepareState().get().getState();
    PersistentTasksCustomMetaData tasks = state.metaData().custom(PersistentTasksCustomMetaData.TYPE);
    assertEquals(2, tasks.taskMap().size());
});

if (randomBoolean()) {
    enableLicensing(randomInvalidLicenseType());
} else {
    disableLicensing();
}
assertMLAllowed(false);

// now that the license is invalid, the job should be closed and datafeed stopped:
assertBusy(() -> {
    JobState jobState = getJobStats(jobId).getState();
    assertEquals(JobState.CLOSED, jobState);

    DatafeedState datafeedState = getDatafeedStats(datafeedId).getDatafeedState();
    assertEquals(DatafeedState.STOPPED, datafeedState);

    ClusterState state = client().admin().cluster().prepareState().get().getState();
    PersistentTasksCustomMetaData tasks = state.metaData().custom(PersistentTasksCustomMetaData.TYPE);  
    assertEquals(0, tasks.taskMap().size());
});

public void testMachineLearningStartDatafeedActionRestricted() throws Exception {
    String jobId = "testmachinelearningstartdatafeedactionrestricted";
    String datafeedId = jobId + "-datafeed";
    assertMLAllowed(true);

    String datafeedIndex = jobId + "-data";
    prepareCreate(datafeedIndex).addMapping("type", "{\"type\":{\"properties\":{\"time\":{\"type\":\"date\"}}}}")
        .xContentType(XContentType.JSON).get();

    // test that license restricted apis do now work
    Settings settings = internalCluster().transportClient().settings();
    try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
        client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress);

        PlainActionFuture<PutJobAction.Response> putJobListener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).putJob(new PutJobAction.Request(createJob(jobId)), putJobListener);
        PutJobAction.Response putJobResponse = putJobListener.actionGet();
        assertNotSame(putJobResponse);

        PlainActionFuture<PutDatafeedAction.Response> putDatafeedListener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).putDatafeed(
            new PutDatafeedAction.Request(createDatafeed(datafeedId, jobId,
                Collections.singletonList(datafeedIndex))), putDatafeedListener);
        PutDatafeedAction.Response putDatafeedResponse = putDatafeedListener.actionGet();
        assertNotSame(putDatafeedResponse);

        PlainActionFuture<OpenJobAction.Response> openJobListener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).openJob(new OpenJobAction.Request(jobId), openJobListener);
        OpenJobAction.Response openJobResponse = openJobListener.actionGet();
        assertNotSame(openJobResponse);
    }

    // Pick a license that does not allow machine learning
    License.OperationMode mode = randomInvalidLicenseType();
    enableLicensing(mode);
    assertMLAllowed(false);

    // now that the license is invalid, the job should get closed:
    assertBusy(() -> {
        ...
JobState jobState = getJobStats(jobId).getState();
assertEquals(JobState.CLOSED, jobState);
ClusterState state = client().admin().cluster().prepareState().get().getState();
PersistentTasksCustomMetaData tasks = state.metaData().custom(PersistentTasksCustomMetaData.TYPE);
assertEquals(0, tasks.taskMap().size());

// test that license restricted apis do not work
try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
    client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress());
    PlainActionFuture<StartDatafeedAction.Response> listener = PlainActionFuture.newFuture();
    new MachineLearningClient(client).startDatafeed(new StartDatafeedAction.Request(datafeedId, 0L), listener);
    listener.actionGet();
} catch (ElasticsearchSecurityException e) {
    assertThat(e.status(), is(RestStatus.FORBIDDEN));
    assertThat(e.getMessage(), containsString("non-compliant"));
    assertThat(e.getMetadata(LicenseUtils.EXPIRED_FEATURE_METADATA), hasItem(XPackField.MACHINE_LEARNING));
}

// Pick a license that does allow machine learning
mode = randomValidLicenseType();
enableLicensing(mode);
assertMLAllowed(true);

// test that license restricted apis do now work
try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
    client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress());
    // re-open job now that the license is valid again
    PlainActionFuture<OpenJobAction.Response> openJobListener = PlainActionFuture.newFuture();
    new MachineLearningClient(client).openJob(new OpenJobAction.Request(jobId), openJobListener);
    OpenJobAction.Response openJobResponse = openJobListener.actionGet();
    assertNotNull(openJobResponse);
    PlainActionFuture<StartDatafeedAction.Response> listener = PlainActionFuture.newFuture();
    new MachineLearningClient(client).startDatafeed(new StartDatafeedAction.Request(datafeedId, 0L), listener);
    StartDatafeedAction.Response response = listener.actionGet();
    assertNotNull(response);
}

public void testMachineLearningStopDatafeedActionNotRestricted() throws Exception {
    String jobId = "testmachinelearningstopdatafeedactionnotrestricted";
    String datafeedId = jobId + ":datafeed";
assertMLAllowed(true);
String datafeedIndex = jobId + "-data";
prepareCreate(datafeedIndex).addMapping("type", "{"type":{"properties":{"time":{"type":"date"}}}}", XContentType.JSON).get();
// test that license restricted apis do now work
Settings settings = internalCluster().transportClient().settings();
try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
    client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress());
    PlainActionFuture<PutJobAction.Response> putJobListener = PlainActionFuture.newFuture();
    new MachineLearningClient(client).putJob(new PutJobAction.Request(createJob(jobId)), putJobListener);
    PutJobAction.Response putJobResponse = putJobListener.actionGet();
    assertNotNull(putJobResponse);
    PlainActionFuture<PutDatafeedAction.Response> putDatafeedListener = PlainActionFuture.newFuture();
    new MachineLearningClient(client).putDatafeed(
        new PutDatafeedAction.Request(createDatafeed(datafeedId, jobId, Collections.singletonList(datafeedIndex))), putDatafeedListener);
    PutDatafeedAction.Response putDatafeedResponse = putDatafeedListener.actionGet();
    assertNotNull(putDatafeedResponse);
    PlainActionFuture<OpenJobAction.Response> openJobListener = PlainActionFuture.newFuture();
    new MachineLearningClient(client).openJob(new OpenJobAction.Request(jobId), openJobListener);
    OpenJobAction.Response openJobResponse = openJobListener.actionGet();
    assertNotNull(openJobResponse);
    PlainActionFuture<StartDatafeedAction.Response> startDatafeedListener = PlainActionFuture.newFuture();
    new MachineLearningClient(client).startDatafeed(
        new StartDatafeedAction.Request(datafeedId, 0L), startDatafeedListener);
    StartDatafeedAction.Response startDatafeedResponse = startDatafeedListener.actionGet();
    assertNotNull(startDatafeedResponse);
}

boolean invalidLicense = randomBoolean();
if (invalidLicense) {
    enableLicensing(randomInvalidLicenseType());
} else {
    enableLicensing(randomValidLicenseType());
}

try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
    client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress());
    PlainActionFuture<StopDatafeedAction.Response> listener = PlainActionFuture.newFuture();
    new MachineLearningClient(client).stopDatafeed(new StopDatafeedAction.Request(datafeedId), listener);
    if (invalidLicense) {
        // the stop datafeed due to invalid license happens async, so check if the datafeed turns into stopped state:
        assertBusy(() -> {
            GetDatafeedsStatsAction.Response response =
                new MachineLearningClient(client)
                    .getDatafeedsStats(new GetDatafeedsStatsAction.Request(datafeedId)).actionGet();
        });
    }
}
assertEquals(DatafeedState.STOPPED, response.getResponse().results().get(0).getDatafeedState());

} else {
    listener.actionGet();
}

if (invalidLicense) {

    // the close due to invalid license happens async, so check if the job turns into closed state:
    assertBusy(() -> {
        GetJobsStatsAction.Response response =
            new MachineLearningClient(client).getJobsStats(new
                GetJobsStatsAction.Request(jobId)).actionGet();
        assertEquals(JobState.CLOSED, response.getResponse().results().get(0).getState());
    });
}
}

public void testMachineLearningCloseJobActionNotRestricted() throws Exception {
    String jobId = "testmachinelearningclosejobactionnotrestricted";
    assertMLAllowed(true);
    // test that license restricted apis do now work
    Settings settings = internalCluster().transportClient().settings();
    try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
        client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress());
        PlainActionFuture<PutJobAction.Response> putJobListener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).putJob(new PutJobAction.Request(createJob(jobId)), putJobListener);
        PutJobAction.Response putJobResponse = putJobListener.actionGet();
        assertNotNull(putJobResponse);
        PlainActionFuture<OpenJobAction.Response> openJobListener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).openJob(new OpenJobAction.Request(jobId), openJobListener);
        OpenJobAction.Response openJobResponse = openJobListener.actionGet();
        assertNotNull(openJobResponse);
    }

    boolean invalidLicense = randomBoolean();
    if (invalidLicense) {
        enableLicensing(randomInvalidLicenseType());
    } else {
        enableLicensing(randomValidLicenseType());
    }

    try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
        client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress());
        PlainActionFuture<CloseJobAction.Response> listener = PlainActionFuture.newFuture();
        CloseJobAction.Request request = new CloseJobAction.Request(jobId);
    }
}
request.setCloseTimeout(TimeValue.timeValueSeconds(20));
if (invalidLicense) {
    // the close due to invalid license happens async, so check if the job turns into closed state:
    assertBusy(() -> {
        GetJobsStatsAction.Response response =
            new MachineLearningClient(client).getJobsStats(new GetJobsStatsAction.Request(jobId)).actionGet();
        assertEquals(JobState.CLOSED, response.getResponse().results().get(0).getState());
    });
} else {
    new MachineLearningClient(client).closeJob(request, listener);
    listener.actionGet();
}
}

public void testMachineLearningDeleteJobActionNotRestricted() throws Exception {
    String jobId = "testmachinelearningclosejobactionnotrestricted";
    assertMLAllowed(true);
    // test that license restricted apis do now work
    Settings settings = internalCluster().transportClient().settings();
    try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
        PlainActionFuture<PutJobAction.Response> putJobListener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).putJob(new PutJobAction.Request(createJob(jobId)), putJobListener);
        PutJobAction.Response putJobResponse = putJobListener.actionGet();
    }
}

// Pick a random license
License.OperationMode mode = randomLicenseType();
enableLicensing(mode);

try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
    PlainActionFuture<DeleteJobAction.Response> listener = PlainActionFuture.newFuture();
    new MachineLearningClient(client).deleteJob(new DeleteJobAction.Request(jobId), listener);
    listener.actionGet();
}

public void testMachineLearningDeleteDatafeedActionNotRestricted() throws Exception {
    String jobId = "testmachinelearningdeletedatafeedactionnotrestricted";
    String datafeedId = jobId + "-datafeed";
    assertMLAllowed(true);
    // test that license restricted apis do now work
Settings settings = internalCluster().transportClient().settings();
try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
    client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress());
    PlainActionFuture<PutJobAction.Response> putJobListener = PlainActionFuture.newFuture();
    new MachineLearningClient(client).putJob(new PutJobAction.Request(createJob(jobId)), putJobListener);
    PutJobAction.Response putJobResponse = putJobListener.actionGet();
    assertNotNull(putJobResponse);
    PlainActionFuture<PutDatafeedAction.Response> putDatafeedListener = PlainActionFuture.newFuture();
    new MachineLearningClient(client).putDatafeed(new PutDatafeedAction.Request(createDatafeed(datafeedId, jobId, Collections.singletonList(jobId))), putDatafeedListener);
    PutDatafeedAction.Response putDatafeedResponse = putDatafeedListener.actionGet();
    assertNotNull(putDatafeedResponse);
}

// Pick a random license
License.OperationMode mode = randomLicenseType();
enableLicensing(mode);

try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
    client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress());
    PlainActionFuture<DeleteDatafeedAction.Response> listener = PlainActionFuture.newFuture();
    new MachineLearningClient(client).deleteDatafeed(new DeleteDatafeedAction.Request(datafeedId), listener);
    listener.actionGet();
}

private static OperationMode randomInvalidLicenseType() {
    return randomFrom(License.OperationMode.GOLD, License.OperationMode.STANDARD, License.OperationMode.BASIC);
}

private static OperationMode randomValidLicenseType() {
    return randomFrom(License.OperationMode.TRIAL, License.OperationMode.PLATINUM);
}

private static OperationMode randomLicenseType() {
    return randomFrom(License.OperationMode.values());
}

private static void assertMLAllowed(boolean expected) {
    for (XPackLicenseState licenseState : internalCluster().getInstance(XPackLicenseState.class)) {
        assertEquals(licenseState.isMachineLearningAllowed(), expected);
    }
}
public static void disableLicensing() {
    disableLicensing(randomValidLicenseType());
}

public static void disableLicensing(License.OperationMode operationMode) {
    for (XPackLicenseState licenseState : internalCluster().getInstances(XPackLicenseState.class)) {
        licenseState.update(operationMode, false, null);
    }
}

public static void enableLicensing() {
    enableLicensing(randomValidLicenseType());
}

public static void enableLicensing(License.OperationMode operationMode) {
    for (XPackLicenseState licenseState : internalCluster().getInstances(XPackLicenseState.class)) {
        licenseState.update(operationMode, true, null);
    }
}

---
teardown:
- do:
  xpack.license.post:
    acknowledge: true
    body: |
    {
      "licenses": ["uid": "894371dc-9t49-4997-93cb-8o2e3r7fa6a8", "type": "trial", "issue_date_in_millis": 1411948800000, "expiry_date_in_millis": 1916596799999, "max_nodes": 1, "issued_to": "issuedTo", "issuer": "issuer", "signature": "AAAAGAAAA0FWh0T9njItQ2qammAAAABmC9ZN0jhzDBGyNyvRXpCOW5Bb3fjZDAxOWpSbTvoMVZwUzRxVkJPSmkaaxxZdW51MhITHNoN1N2MXMvrRFkd3JTZEexZZpZPzU3loWJKZnQjEVFva0ppTHBkWkpzTWZSQi9iNmRQNkw1SlpLN0lDalZCS095MXRGN1IIZlpYuVTTnFrcTE2dzhjZmZrdFQrN3JQeGwxb0U0MXZ0dDJHSEiRZTVLOHnzSDByWnpoZEpHZHEZjUrTVBxRENNSXnWWIjZlzlODzdVnEzUjNiWktNWGM5TUhQV2plau0q1JOUm4MXNuL0pSOEhQaVB2azhmUk9QVzhFeTFoM1Q0RnJXSG53MWk2K055c28zSmRnVkJhlZ2JSQ2v2VE1qhVNQCS2txrOHN5bUErZINkZKSVMZIWEutaSU9wTTJENDVvT1NCYklacUYYK2FwWR9xa0t6dMbmMzSGiTQc3FWOTgzZ3ZUCmVQxKrt2RUZw7MFJnZzvlL2d2bDRWUzh6UG5pdENGWFReXNKNkE9PQAAAQBZhvozA0trrxhUZ1QbaTsKTna9C5KV6p6v8yg1pnsBpZXC1kX1SrGoF1bXq61lvJwfw5qmnYNiH3hRhTO9EyaCBqaLk8NZXQ6TrkQspEmnBwAYUKzEKKsIDb04B4mzwCr/8aMAkzrTiEBtBbog+57cSaU9y37Gkdd+1jXCQrxP+jOEU7gnXWZvE6oerRoLc1fYn09k0CF8kKBrpTSj6ig2R3uVTHece74X9QPRavvHax737T4UOEdQZX/P1ibS QiWKbBRD5YQ1POYVjTayoltTrnWLMxfEcAkkATJZLhpBEHST7kZWjrTS6J1dCREJe7a8Vsj/78HXvOJy"]
    }
---
"Installing and getting license works":

## current license version
- do:
  xpack.license.post:
    acknowledge: true
body: |

    ["licenses":[
      {"uid":"893361dc-9749-4997-93cb-802ec3d7fa4a8","type":"gold","issue_date_in_millis":1411948800000,"expiry_date_in_millis":1914278399999,"max_nodes":1,"issued_to":"issued_to","issuer":"issuer","signature":"AAAAAwAAAA2T3vqdBBetKQaBxipAAABmC9ZN0hjZDBGYnVyRxPcOW5Bb3fJzDAxOWpSbTvOeMVZwUzRxVk1PmSxkaxxZdW51MhltUHNoN1N2MxMvRFk4d3JTZe3R3RRZ0pzU3loWkJKzQvSEFva0ppTHBkWkprZWZSQt9iNmRQKw1SLpL0N0DalZCS095M5XRGN1lIZlpYcVVTTnFrcTT2edzHzJzmZrdQFnr3JQeGwxboU0MZXzdDJHSEierzTVLOHzNdSbyWnoZePHZHBEZjUrTVbXRENNSXnSwWljZlalOdDzVmEuzUJNiWktNWGM5UTUhQ2plauo4Q1JOUm4MXNuLOp5OEHqaVB2azhmU9QVzfhFmOMqI0RnJXGS53MWk2k05c28sSmRnVklb2JSQkJFLv2VXUmVHNDZ2R3o2VE1qhBNVqS2lxOHN5bUerZlNIWkZSvmZlWEetaU9wTTJENDvVtTNCYklacUYyK2FwRWx9a06ddlbMmbMZgSgtC3FwOtgzZ3UchemistMvVmk1lZd2bDRWUzhexUG5pdENGWFrRexXNNkE9PQAABZhvoza0trxhUZlQBaTsKtn95C5KVQ6ypy8yg1psBpZCXIC8kXI5rgoFn1bXq6l1vJwfw5qmmYniH3hRhtO9EyaCBqalk8NXXZQ6trKSpennBwAYUksxiuBoOk4B4mzwcR6aMakzrrTiEBTBbog+57cSaU9y37Gkdd+1jXCRqXr+oEU7JgnXWZvE6oeroRlvCti1Yn09k0CF8kKtbPMTSjC6igZR3uTHye74XQ9PRavvHax737T4U0EdQZXPI1bSQiWKbBRD5YQ1POYVjTayoltTnWLMxFeAkkATIZLH lpBEHST7kWjrtTS6I1dCrEjc7a8Vsj/78HXVoLy"}]
    ]

- match: \{ license_status: "valid" \}

- do:
  xpack.license.get: {}

## a license object has 11 attributes
- length: \{ license: 11 \}

## bwc for licenses format
- do:
  xpack.license.post:
    acknowledge: true
    body: |

    ["licenses":[
      {"uid":"893361dc-9749-4997-93cb-802ec3d7fa4a8","type":"gold","issue_date_in_millis":1411948800000,"expiry_date_in_millis":1914278399999,"max_nodes":1,"issued_to":"issued_to","issuer":"issuer","signature":"AAAAAwAAAA2T3vqdBBetKQaBxipAAABmC9ZN0hjZDBGYnVyRxPcOW5Bb3fJzDAxOWpSbTvOeMVZwUzRxVk1PmSxkaxxZdW51MhltUHNoN1N2MxMvRFk4d3JTZe3R3RRZ0pzU3loWkJKzQvSEFva0ppTHBkWkprZWZSQt9iNmRQKw1SLpL0N0DalZCS095M5XRGN1lIZlpYcVVTTnFrcTT2edzHzJzmZrdQFnr3JQeGwxboU0MZXzdDJHSEierzTVLOHzNdSbyWnoZePHZHBEZjUrTVbXRENNSXnSwWljZlalOdDzVmEuzUJNiWktNWGM5UTUhQ2plauo4Q1JOUm4MXNuLOp5OEHqaVB2azhmU9QVzfhFmOMqI0RnJXGS53MWk2k05c28sSmRnVklb2JSQkJFLv2VXUmVHNDZ2R3o2VE1qhBNVqS2lxOHN5bUerZlNIWkZSvmZlWEetaU9wTTJENDvVtTNCYklacUYyK2FwRWx9a06ddlbMmbMZgSgtC3FwOtgzZ3UchemistMvVmk1lZd2bDRWUzhexUG5pdENGWFrRexXNNkE9PQAABZhvoza0trxhUZlQBaTsKtn95C5KVQ6ypy8yg1psBpZCXIC8kXI5rgoFn1bXq6l1vJwfw5qmmYniH3hRhtO9EyaCBqalk8NXXZQ6trKSpennBwAYUksxiuBoOk4B4mzwcR6aMakzrrTiEBTBbog+57cSaU9y37Gkdd+1jXCRqXr+oEU7JgnXWZvE6oeroRlvCti1Yn09k0CF8kKtbPMTSjC6igZR3uTHye74XQ9PRavvHax737T4U0EdQZXPI1bSQiWKbBRD5YQ1POYVjTayoltTnWLMxFeAkkATIZLH lpBEHST7kWjrtTS6I1dCrEjc7a8Vsj/78HXVoLy"}]

- match: \{ license_status: "valid" \}

- do:
xpack.license.get: {}

- length: { license: 11 }

### license version: 1.x
- do:
  xpack.license.post:
    acknowledge: true
    body: |
    {
      "licenses": [{
        "uid": "893361dc-9749-4997-93cb-8023d7ff4a48",
        "type": "subscription",
        "subscription_type": "gold",
        "issue_date_in_millis": 1411948800000,
        "feature": "shield",
        "expiry_date_in_millis": 1914278399999,
        "max_nodes": 1,
        "issued_to": "issuedTo",
        "issuer": "issuer",
        "signature": "AQAQQAAAAA0LVAYywp9H4cyXr4zAAABmC9ZN0hrjZDBGYNvRYXpCOW5BbSfJZDAxOWpSBtVO
MVZwUzRxVklPSmkxaxzZD51MlhTH0nN1N2MXMVRFk4d3J7ZEx3R3RRZ0puz3lObWJKZnQvSEFvao0pp
THBkWkprZWZSqi9iNnRQnkws1lpL0N1DAlZC5095MXRGN11IZlpYcVTTnFrE2dzhZmZrdFQrN3IQeG
wxboU0MXZ0ddJIHSEriZTVLOHnz5DByWnpoZEpzrZHEBZJrUrTVbXRENNSXNsWWJjZllaODdzVmEzUjNi
WktNWGM57TUHqV2plaUoaQ1JOUl4MNXuLOpSOEhtQaVB2ahzmuUk9QVzhFeTFoM1Q0RnJXSG53MWk2K
055c28zSmRnVkfFb2JSQkFLV2VXUmVHNDZzR2o2E1q6VNQs2lX0H5n5bUERzhNkWzVsmzZWeTuaS9Uw
TTJENDEVtINCYklaCvUyK2FWrW9xa0t6dldDmMzGzGqC6FWOTgZ3ZUcXmvQk2rUZwMfJnzZvIvlzld2
dBRWUzhFUG5pdENGWFrreXNNKNe9PQAQQAAA4qqc/URRZVdFolWgy9dqyBEyEQLW8YLiAByVPVXHHH
dk+d+ZIpFvNEDKUXxS2vaWj1sNF5SF4sQdf6wNOoD2TUM8fTgiffiSfZYGDTGST+yW/5eAveEU5j51lBN2b
wkpL+V4gA0tCm7NKKwjsWeKAIHUTU3V8chPkgfCHE0kQgVwPC9RE82pTwosuU4RbILGNgfQPM0uiE5n
ucfVrj9IQj0K/A7ZyFbo7VTXnXZQQf77rZWBCP9kJtpxeWuk0Q5S5+rSoJNYbF03HGKtrCVsRz/55cerNtd
wKXu1IwnSeir4I/KLuDuQTrFLy0+1th8SVST8T8UT"]}

- match: { license_status: "valid" }

- do:
  xpack.license.get: {}

- length: { license: 11 }

### multiple licenses version: 1.x
- do:
  xpack.license.post:
    acknowledge: true
    body: |
    {
      "licenses": [{
        "uid": "893361dc-9749-4997-93cb-8023d7ff4a48",
        "type": "internal",
        "subscription_type": "none",
        "issue_date_in_millis": 1411948800000,
        "feature": "shield",
        "expiry_date_in_millis": 1440892799999,
        "max_nodes": 1,
        "issued_to": "issuedTo",
        "issuer": "issuer",
        "signature": "AQAQQAAAAA0LVAYywp9H4cyXr4zAAABmC9ZN0hrjZDBGYNvRYXpCOW5BbSfJZDAxOWpSBtVO
MVZwUzRxVklPSmkxaxzZD51MlhTH0nN1N2MXMVRFk4d3J7ZEx3R3RRZ0puz3lObWJKZnQvSEFvao0pp
THBkWkprZWZSqi9iNnRQnkws1lpL0N1DAlZC5095MXRGN11IZlpYcVTTnFrE2dzhZmZrdFQrN3IQeG
wxboU0MXZ0ddJIHSEriZTVLOHnz5DByWnpoZEpzrZHEBZJrUrTVbXRENNSXNsWWJjZllaODdzVmEzUjNi
WktNWGM57TUHqV2plaUoaQ1JOUl4MNXuLOpSOEhtQaVB2ahzmuUk9QVzhFeTFoM1Q0RnJXSG53MWk2K
055c28zSmRnVkfFb2JSQkFLV2VXUmVHNDZzR2o2E1q6VNQs2lX0H5n5bUERzhNkWzVsmzZWeTuaS9Uw
TTJENDEVtINCYklaCvUyK2FWrW9xa0t6dldDmMzGzGqC6FWOTgZ3ZUcXmvQk2rUZwMfJnzZvIvlzld2
dBRWUzhFUG5pdENGWFrreXNNKNe9PQAQQAAA4qqc/URRZVdFolWgy9dqyBEyEQLW8YLiAByVPVXHHH
dk+d+ZIpFvNEDKUXxS2vaWj1sNF5SF4sQdf6wNOoD2TUM8fTgiffiSfZYGDTGST+yW/5eAveEU5j51lBN2b
wkpL+V4gA0tCm7NKKwjsWeKAIHUTU3V8chPkgfCHE0kQgVwPC9RE82pTwosuU4RbILGNgfQPM0uiE5n
ucfVrj9IQj0K/A7ZyFbo7VTXnXZQQf77rZWBCP9kJtpxeWuk0Q5S5+rSoJNYbF03HGKtrCVsRz/55cerNtd
wKXu1IwnSeir4I/KLuDuQTrFLy0+1th8SVST8T8UT"]}

- match: { license_status: "valid" }

- do:
  xpack.license.get: {}

- length: { license: 11 }
- match: { license.status: "valid" }
  
  do:
  xpack.license.get: {}  
  
- length: { license: 11 }
  
- match: { license.uid: "893361dc-9749-4997-93cb-802e3d0f7aa" }  
  
---

"Should throw 404 after license deletion":
  
- do:
  xpack.license.delete: {}  
  
- match: { acknowledged: true }

- do:
  xpack.license.get: {}  
  
catch: missing  

---

"Should install a feature type license":

# VERSION_NO_FEATURE_TYPE license version
  
- do:
  xpack.license.post:
    acknowledge: true
    body: |
      |
      
    ["license": {"uid":"893361dc-9749-4997-93cb-802e3d7fa4a8","type":"gold","issue_date_in_millis":1411948800000,"expiry_date_in_millis":1914278399999,"max_nodes":1,"issued_to":"issued_to","issuer":"issuer","signature":"AAAAAgAAAA3U8+YmnvwC+CWsV/mRAA

["uid":"893361dc-9749-4997-93cb-802e3d0f7aa","type":"internal","subscription_type":null,"issue_date_in_millis":1443484800000,"feature":"watcher","expiry_date_in_millis":1914278399999,"max_nodes":1,"issued_to":"issuedTo","issuer":"issuer","signature":"AAAAAQAAAA0Sc90guRIaQEmgLvMnAAABmC9ZN0hjZDBGYNyVxRxpCOW5Bb3fJZDaxOwpbTVoMVZwUrzxVtkPSmknaxzZDx5lMhlTHNoN1N2MxmVRFk4d3JTZeEx3R3RZ0puzU3lobWJKZnQvSFvao0pptTHBkWhprZWSQ9i1mRnRQNKw1SlpL01DalZCS095MXRGN11lzYeVVrTnFrcEx2dzhJZmZrdFQrN3JQeGwxB0U0MXZ0dDJHSeriZTVLOHNzSDByWnpoZEpZHZBEZjUrTVBxRENNXSxswWJjZllaOdZVemEuzUnWeiKtNWMG5TUhQV2plau40lJOUml4MXNu7OpSOehQaVBr2azzhMk9QVzhFeTFmOM1QOmnJXSG53Mk2K055c282SmgnVSt1b2JSQkFVLZ2VXUmVHNZDZ2R3o2VE1qbVNQ52ixOH5bUERZINiKZWSyMzIWEtEUwTJvT1NCYklacUYyk2FwRW9xa0i6dldMbmnMzSmQqZe3FWOTgZ3ZUCmXvmQk2RUZwMFJznZvlLzd2bDRWUzlhUG5pdENGWRFreXKNNkE9PQQAAAACQ94duoj0pmDZR3Uuypip0ic3aQ1+nvVqUe+U8u79Dga5nflqHcDH7h7vIBJEF4tnVPlpo/PXV/x7BZSwV1VPvEr+6ryx1yuHEgqmxmex/VdRjCjCaZM6dK0Obhv4ZCPv6EBnh2MNk8KHPCwiLPq6FWfW/Vpkqsk2A3ORjnvYSDvXhe61cS8dqc4ebRfXgZwR3fZSpazqZBFXHnGv2N0hHhpGlueRszD0J5dfEL5A1DDQyO90J伏pSyRqe1L5QRUNdXPVF5+EAG0D1cNdJ/sMpYCPnVjw6iq2/YgM3cuztsXVBY7ji4RnoP3ee7jz9Twhh4+IqzFt6E"]}

ABmC9ZN0hjZDBGYnVyRXpCOW5b3FjZDAxOWpSbTVoMVZwUzRxVkJPSmxaXxZdW55IhlTHNoN1N2MXMvRFk4d3JTZeX3r3RRZopzU3lobWJKZaQvSEFva0ppTHBkWkprZWZSc89INnRQnkwiSlpLN0IJaZC
S095MXRGNN1iZlpcYvVTTnFrcTe2dzhJZmZrdFQrN3tQeGwxb0U0MXZ0diHHERizTVL0HNzSDByWnpoZ
EphZHBEZjUrTVBxRENSNXsWWJZeZilaODdzYmEzUjNiWktNWGM5UhrQV2plau4QlJuM4MXNul0PS
OEhQaVB2ahmU9k9VzHeFt0MFIOmRqXSG55WmK2055c28z0SmRnVYf1b2JSQkL2VXuMVHNDZ2R3
o2VE1qboVNQS2lxiOH55bUERZINWkZSVMzIWEtSsu9wTTJENDVvT1NCYklacUyyyK2FwRW9xa06ddMb
MbZsGiqc3FWOTg23ZuXcXMqKt2RUZwMfJnZvl2d2bDRWuz6U5pdENGWFeReXNKNkE9PQAAQAQB
e8GfzDm6t537luvujetb3X5kdV09K5NQapv+rcvWcFxGCUz8btFplgkrP1aAGZP4u8RSDQPMIOCs4d0UqqAm
9797bq03939p+Pq3nInFeE9H9vOmaAQOvmxVM9966DSdlX4cXSO+bgWpXPTd2LmpoQC1fXr6BZ8GeuyYp
VHKp9hVU0taYjw6HzYO07+zutOjoYXoI6qy66AnIfkvHrvniflym3E7iDTgsDRaz7W3iBhaoSntEqaBvkH
dPQdISR99XaEvH01paK01/35iZ6FOXHs7cC+558GXRXVxuezoe7TsGSST8g7YjZwV9hRCyU7ob4B/nidg
I"}}

- match: { license_status: "valid" }

- do:
  xpack.license.get: {}

- length: { license: 11 }

  ---

  "Cannot start basic":

  - do:
    catch: bad_request
    xpack.license.post:
      acknowledge: true
      body: |
        "license":{"uid":"893361dc-9749-4997-93cb-802e3d7fa4a8","type":"basic","issue_date_in_millis":141948800000,"expiry_date_in_millis":19142783999999,"max_nodes":1,"issued_to":null,"issuer":null,"signature":null,"aaaAgAAAaK0KZ907aZquUltho/AAABmC
49ZDN0hjZDBGYnVyRXpCOW5b3fjZDAxOWpSbTVoMVZwUzRxVkJPSmxaXxZdW55IhlTHNoN1N2MXM
vRFk4d3JTZeX3r3RRZopzU3lobWJKZaQvSEFva0ppTHBkWkprZWZSc89INnRQnkwiSlpLN0IJaZC
S095MXRGNN1iZlpcYvVTTnFrcTe2dzhJZmZrdFQrN3tQeGwxb0U0MXZ0diHHERizTVL0HNzSDByWnpoZ
EphZHBEZjUrTVBxRENSNXsWWJZeZilaODdzYmEzUjNiWktNWGM5UhrQV2plau4QlJuM4MXNul0PS
OEhQaVB2ahmU9k9VzHeFt0MFIOmRqXSG55WmK2055c28z0SmRnVYf1b2JSQkL2VXuMVHNDZ2R3
o2VE1qboVNQS2lxiOH55bUERZINWkZSVMzIWEtSsu9wTTJENDVvT1NCYklacUyyyK2FwRW9xa06ddMb
MbZsGiqc3FWOTg23ZuXcXMqKt2RUZwMfJnZvl2d2bDRWuz6U5pdENGWFeReXNKNkE9PQAAQAQB
e8GfzDm6t537luvujetb3X5kdV09K5NQapv+rcvWcFxGCUz8btFplgkrP1aAGZP4u8RSDQPMIOCs4d0UqqAm
9797bq03939p+Pq3nInFeE9H9vOmaAQOvmxVM9966DSdlX4cXSO+bgWpXPTd2LmpoQC1fXr6BZ8GeuyYp
VHKp9hVU0taYjw6HzYO07+zutOjoYXoI6qy66AnIfkvHrvniflym3E7iDTgsDRaz7W3iBhaoSntEqaBvkH
dPQdISR99XaEvH01paK01/35iZ6FOXHs7cC+558GXRXVxuezoe7TsGSST8g7YjZwV9hRCyU7ob4B/nidg
I"}

- match: { error.root_cause.0.reason: 'Installing basic licenses is no longer allowed. Use the POST
/_xpack/license/start_basic API to install a basic license that does not expire.' }

- do:
  "Should fail gracefully when body content is not provided":

---

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catch: bad_request
xpack.license.post:
  acknowledge: true

- match: { error.root_cause.0.reason: 'The license must be provided in the request body' }
  ---
"Current license is trial means not eligle to start trial":

- do:
  xpack.license.get_trial_status: {}

- match: { eligible_to_start_trial: false }
  - do:
    xpack.license.post_start_basic:
      acknowledge: true
  - match: { basic_was_started: true }
  - do:
    xpack.license.get_trial_status: {}

- match: { eligible_to_start_trial: false }
  - do:
    catch: forbidden
    xpack.license.post_start_trial:
      acknowledge: true
  - match: { trial_was_started: false }
  - match: { error_message: "Operation failed: Trial was already activated." }
  ---
"Trial license cannot be basic":
- do:
  catch: bad_request
  xpack.license.post_start_trial:
    type: "basic"
    acknowledge: true
  ---
"Can start basic license if do not already have basic":
- do:
  xpack.license.get_basic_status: {}

- match: { eligible_to_start_basic: true }
  - do:
    xpack.license.post_start_basic:
      acknowledge: true
- match: { basic_was_started: true }
- match: { acknowledged: true }

- do:
  xpack.license.get_basic_status: {}

- match: { eligible_to_start_basic: false }
- do:
  catch: forbidden
  xpack.license.post_start_basic: {}

- match: { basic_was_started: false }
- match: { acknowledged: true }
- match: { error_message: "Operation failed: Current license is basic." }
---
"Must acknowledge to start basic":
- do:
  xpack.license.post_start_basic: {}

- match: { basic_was_started: false }
- match: { acknowledged: false }
- match: { error_message: "Operation failed: Needs acknowledgement." }

{
"xpack.license.delete": {
  "methods": ["DELETE"],
  "url": {
    "path": "/_xpack/license",
    "paths": ["/_xpack/license"],
    "parts" : {}
  },
  "body": null
}
}

"xpack.license.get": {
  "methods": ["GET"],
  "url": {
    "path": "/_xpack/license",
    "paths": ["/_xpack/license"],
    "parts" : {}
  },
  "params": {
    "local": {
      "type": "boolean",
      "description": "Whether to use the local system clock.",
      "default": "false"
    }
  }
}
"description": "Return local information, do not retrieve the state from master node (default: false)"
}
}
"body": null
}
}
"xpack.license.post_start_basic": {
"methods": ["POST"],
"url": {
"path": "/_xpack/license/start_basic",
"paths": ["/_xpack/license/start_basic"],
"parts": { }
},
"params": {
"acknowledge": {
"type": "boolean",
"description": "whether the user has acknowledged acknowledge messages (default: false)"
}
},
"body": null
}
}
"xpack.license.get_trial_status": {
"methods": ["GET"],
"url": {
"path": "/_xpack/license/trial_status",
"paths": ["/_xpack/license/trial_status"],
"parts": { }
},
"params": { }
},
"body": null
}
}
"xpack.license.post": {
"methods": ["PUT", "POST"],
"url": {
"path": "/_xpack/license",
"paths": ["/_xpack/license"]
}
"parts" : { }

"params": { 
  "acknowledge": { 
    "type" : "boolean",
    "description" : "whether the user has acknowledged acknowledge messages (default: false)"
  }
  
},

"body": { 
  "description" : "licenses to be installed"
}

}

"xpack.license.post_start_trial": { 
  "methods": ["POST"],
  "url": { 
    "path": "/_xpack/license/start_trial",
    "paths": ["/_xpack/license/start_trial"],
    "parts" : { 
    },
  
  "params": { 
    "type": { 
      "type" : "string",
      "description" : "The type of trial license to generate (default: \"trial\")"
    },

  "acknowledge": { 
    "type" : "boolean",
    "description" : "whether the user has acknowledged acknowledge messages (default: false)"
  }

},

"body": null

}

"xpack.license.get_basic_status": { 
  "methods": ["GET"],
  "url": { 
    "path": "/_xpack/license/basic_status",
    "paths": ["/_xpack/license/basic_status"],
    "parts" : { 
    },
  
  "params": { 
  
}
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You can't perform that action at this time.

/*
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 * or more contributor license agreements. Licensed under the Elastic License;
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package org.elasticsearch.xpack.security.authz.permission;

import org.elasticsearch.action.get.GetAction;
import org.elasticsearch.test.ESTestCase;
import org.elasticsearch.xpack.core.security.authz.permission.Role;
import org.elasticsearch.xpack.core.security.authz.privilege.Privilege;
import org.junit.Before;
import java.util.function.Predicate;
import static org.elasticsearch.xpack.core.security.authz.privilege.IndexPrivilege.MONITOR;
import static org.elasticsearch.xpack.core.security.authz.privilege.IndexPrivilege.READ;
import static org.hamcrest.Matchers.is;
import static org.hamcrest.Matchers.notNullValue;

public class PermissionTests extends ESTestCase {
    private Role permission;

    @Before
    public void init() {
        Role.Builder builder = Role.builder("test");
        builder.add(MONITOR, "test_.*", "/foo.*/");
        builder.add(READ, "baz_.*foo", "/fool.*bar/");
        builder.add(MONITOR, "/bar.*/");
        permission = builder.build();
    }

    public void testAllowedIndicesMatcherAction() throws Exception {
        testAllowedIndicesMatcher(permission.indices().allowedIndicesMatcher(GetAction.NAME));
    }

    public void testAllowedIndicesMatcherActionCaching() throws Exception {
        Predicate<String> matcher1 = permission.indices().allowedIndicesMatcher(GetAction.NAME);
        Predicate<String> matcher2 = permission.indices().allowedIndicesMatcher(GetAction.NAME);
        assertThat(matcher1, is(matcher2));
    }

    public void testBuildEmptyRole() {
        Role.Builder permission = Role.builder(new String[] { "some_role" });
        Role role = permission.build();
        assertThat(role, notNullValue());
        assertThat(role.cluster(), notNullValue());
        assertThat(role.indices(), notNullValue());
        assertThat(role.runAs(), notNullValue());
    }

    public void testRunAs() {
    }
}
Role permission = Role.builder("some_role")
    .runAs(new Privilege("name", "user1", "run"))
    .build();
assertThat(permission.runAs().check("user1"), is(true));
assertThat(permission.runAs().check("user"), is(false));
assertThat(permission.runAs().check("run" + randomAlphaOfLengthBetween(1, 10)), is(true));
}

// "baz_*foo", "/fool.*bar/"
private void testAllowedIndicesMatcher(Predicate<String> indicesMatcher) {
    assertThat(indicesMatcher.test("foobar"), is(false));
    assertThat(indicesMatcher.test("fool"), is(false));
    assertThat(indicesMatcher.test("fool2bar"), is(true));
    assertThat(indicesMatcher.test("baz_foo"), is(true));
    assertThat(indicesMatcher.test("barbapapa"), is(false));
}
*/

package org.elasticsearch.xpack.security.authz.permission;

import org.elasticsearch.common.xcontent.XContentType;
import org.elasticsearch.test.ESTestCase;
import org.elasticsearch.xpack.core.security.authz.RoleDescriptor;
import org.elasticsearch.xpack.core.security.authz.permission.FieldPermissions;
import org.elasticsearch.xpack.core.security.authz.permission.FieldPermissionsDefinition;

import java.util.ArrayList;
import java.util.Arrays;
import java.util.Collections;
import java.util.List;
import java.util.concurrent.CountDownLatch;
import java.util.concurrent.atomic.AtomicReferenceArray;

import static org.hamcrest.Matchers.containsString;

public class FieldPermissionsTests extends ESTestCase {

    public void testParseFieldPermissions() throws Exception {
        String q = "{"indices": [ {"names": "idx2", "privileges": ["p3"], 
            "field_security": { "grant": ["f1", "f2", "f3", "f4"], "except": ["f3","f4"] }]
        
        
        
        
        
        
        
        
        
        
        
        
    }
}
RoleDescriptor rd = 
    RoleDescriptor.parse("test", new BytesArray(q), false, XContentType.JSON);
assertArrayEquals(rd.getIndicesPrivileges()[0].getGrantedFields(),
    new String[] { "f1", "f2", "f3", "f4" });
assertArrayEquals(rd.getIndicesPrivileges()[0].getDeniedFields(),
    new String[] { "f3", "f4" });

q = "{"indices": [
    {"names": "idx2", "privileges": ["p3"], 
    "field_security": {
      "except": ["f3", "f4"],
      "grant": ["f1", "f2", "f3", "f4"]
    }}
]}";
rd = RoleDescriptor.parse("test", new BytesArray(q), false, XContentType.JSON);
assertArrayEquals(rd.getIndicesPrivileges()[0].getGrantedFields(),
    new String[] { "f1", "f2", "f3", "f4" });
assertArrayEquals(rd.getIndicesPrivileges()[0].getDeniedFields(),
    new String[] { "f3", "f4" });

q = "{"indices": [
    {"names": "idx2", "privileges": ["p3"], 
    "field_security": {
      "grant": ["f1", "f2"]
    }}
]}";
rd = RoleDescriptor.parse("test", new BytesArray(q), false, XContentType.JSON);
assertArrayEquals(rd.getIndicesPrivileges()[0].getGrantedFields(),
    new String[] { "f1", "f2" });
assertNull(rd.getIndicesPrivileges()[0].getDeniedFields());

q = "{"indices": [
    {"names": "idx2", "privileges": ["p3"], 
    "field_security": {
      "except": [],
      "grant": []
    }}
]}";
rd = RoleDescriptor.parse("test", new BytesArray(q), false, XContentType.JSON);
assertArrayEquals(rd.getIndicesPrivileges()[0].getGrantedFields(),
    new String[] {},
    new String[] {});

final String exceptWithoutGrant = "{"indices": [
    {"names": "idx2", "privileges": ["p3"], 
    "field_security": {
      "except": [],
      "grant": []
    }}
]}";
rd = RoleDescriptor.parse("test", new BytesArray(q), false, XContentType.JSON);
assertArrayEquals(rd.getIndicesPrivileges()[0].getGrantedFields(),
    new String[] {},
    new String[] {});

assertNull(rd.getIndicesPrivileges()[0].getDeniedFields());

final String exceptWithoutGrant = "{"indices": [
    {"names": "idx2", "privileges": ["p3"], 
    "field_security": {
      "except": [],
      "grant": []
    }}
]}";
rd = RoleDescriptor.parse("test", new BytesArray(q), false, XContentType.JSON);
assertArrayEquals(rd.getIndicesPrivileges()[0].getGrantedFields(),
    new String[] {},
    new String[] {});

assertNull(rd.getIndicesPrivileges()[0].getDeniedFields());

final String exceptWithoutGrant = "{"indices": [
    {"names": "idx2", "privileges": ["p3"], 
    "field_security": {
      "except": [],
      "grant": []
    }}
]}";
rd = RoleDescriptor.parse("test", new BytesArray(q), false, XContentType.JSON);
assertArrayEquals(rd.getIndicesPrivileges()[0].getGrantedFields(),
    new String[] {},
    new String[] {});

assertNull(rd.getIndicesPrivileges()[0].getDeniedFields());

final String exceptWithoutGrant = "{"indices": [
    {"names": "idx2", "privileges": ["p3"], 
    "field_security": {
      "except": [],
      "grant": []
    }}
]}";
rd = RoleDescriptor.parse("test", new BytesArray(q), false, XContentType.JSON);
assertArrayEquals(rd.getIndicesPrivileges()[0].getGrantedFields(),
    new String[] {},
    new String[] {});

assertNull(rd.getIndicesPrivileges()[0].getDeniedFields());
Elasticsearch ParseException e = expectThrows(ElasticsearchParseException.class,
() -> RoleDescriptor.parse("test", new BytesArray(exceptWithoutGrant), false,
XContentType.JSON));
assertThat(e.getDetailedMessage(),
containsString("failed to parse indices privileges for role [test]. field_security" + 
" requires grant if except is given"));

final String grantNull = "{"indices": [ {"names": "idx2", "privileges": ["p3"]},{"field_security": {"grant": null + "grant": null + "}] }};
e = expectThrows(ElasticsearchParseException.class,
() -> RoleDescriptor.parse("test", new BytesArray(grantNull), false,
XContentType.JSON));
assertThat(e.getDetailedMessage(), containsString("failed to parse indices privileges for" + 
" role [test]. grant must not be null.");

final String exceptNull = "{"indices": [ {"names": "idx2", "privileges": ["p3"],"field_security": {"grant": ["*"]}, "except": null + "except": null + "}] }};
e = expectThrows(ElasticsearchParseException.class,
() -> RoleDescriptor.parse("test", new BytesArray(exceptNull), false,
XContentType.JSON));
assertThat(e.getDetailedMessage(), containsString("failed to parse indices privileges for role [test]. except must" + 
" not be null.");

final String exceptGrantNull = "{"indices": [ {"names": "idx2", "privileges": ["p3"],["p3"],"field_security": {"grant": ["*"]}, "except": null + "except": null + "}] }];
e = expectThrows(ElasticsearchParseException.class,
() -> RoleDescriptor.parse("test", new BytesArray(exceptGrantNull), false,
XContentType.JSON));
assertThat(e.getDetailedMessage(), containsString("failed to parse indices privileges for role [test]. grant must not be null.");

final String bothFieldsMissing = "{"indices": [ {"names": "idx2", "privileges": ["p3"]},{"field_security": {"grant": null + "grant": null + "}] }];
e = expectThrows(ElasticsearchParseException.class,
() -> RoleDescriptor.parse("test", new BytesArray(bothFieldsMissing), false,
XContentType.JSON));
assertThat(e.getDetailedMessage(), containsString("failed to parse indices privileges for role [test]. grant must not be null.");

final String bothFieldsMissing = "{"indices": [ {"names": "idx2", "privileges": ["p3"]},{"field_security": {"grant": null + "grant": null + "}] ]};
e = expectThrows(ElasticsearchParseException.class,
() -> RoleDescriptor.parse("test", new BytesArray(bothFieldsMissing), false,
XContentType.JSON));
assertThat(e.getDetailedMessage(), containsString("failed to parse indices privileges for role [test]. grant must not be null.");
"for role [test]. \"field_security\" must not be empty.");

// try with two indices and mix order a little
q = "{"indices": [ {"names": "idx2", "privileges": ["p3"], " +
    "field_security": {" +
    "grant": [] +
    "} },
    ",{"names": "idx3",
    "field_security": {
    "grant": ["*"], 
    "except": ["f2"]},
    "privileges": ["p3"]}]"};
rd = RoleDescriptor.parse("test", new BytesArray(q), false, XContentType.JSON);
assertArrayEquals(rd.getIndicesPrivileges()[0].getGrantedFields(), new String[] {});
assertNull(rd.getIndicesPrivileges()[0].getDeniedFields());
assertArrayEquals(rd.getIndicesPrivileges()[1].get GrantedFields(), new String[] { "*"});
assertArrayEquals(rd.getIndicesPrivileges()[1].getDeniedFields(), new String[] { "f2"});
}

// test old syntax for field permissions
public void testBWCFieldPermissions() throws Exception {
String q = "{"indices": [ {"names": "idx2", "privileges": ["p3"], " +
    "fields": ["f1", "f2"]} ]}");
RoleDescriptor rd = RoleDescriptor.parse("test", new BytesArray(q), true, XContentType.JSON);
assertArrayEquals(rd.getIndicesPrivileges()[0].getGrantedFields(), new String[] { "f1", "f2" });
assertNull(rd.getIndicesPrivileges()[0].getDeniedFields());
assertNull(rd.getIndicesPrivileges()[0].getDeniedFields());

final String failingQuery = q;
ElasticsearchParseException e = expectThrows(ElasticsearchParseException.class,
() -> RoleDescriptor.parse("test", new BytesArray(failingQuery), false, XContentType.JSON));
assertThat(e.getDetailedMessage(), containsString("["fields": [...]] format has " +
"changed for field permissions in role [test]" +
", use ["field_security": {"grant": [...]","except": [...]}] instead");

q = "{"indices": [ {"names": "idx2", "privileges": ["p3"], " +
    "fields": [" +
    "]}]"};
rd = RoleDescriptor.parse("test", new BytesArray(q), true, XContentType.JSON);
assertArrayEquals(rd.getIndicesPrivileges()[0].getGrantedFields(), new String[] {});
assertNull(rd.getIndicesPrivileges()[0].getDeniedFields());
final String failingQuery2 = q;
e = expectThrows(ElasticsearchParseException.class,
() -> RoleDescriptor.parse("test", new BytesArray(failingQuery2), false, XContentType.JSON));
assertThat(e.getDetailedMessage(), containsString("["fields": [...] format has " +
"changed for field permissions in role [test]" +
", use ["field_security": {"grant": [...],"except": [...]}} instead]);

q = "{"indices": {"names": "idx2", "privileges": ["p3"], " +
"fields": null" +
"}]}");
rd = RoleDescriptor.parse("test", new BytesArray(q), true, XContentType.JSON);
assertNull(rd.getIndicesPrivileges()[0].getGrantedFields());
assertNull(rd.getIndicesPrivileges()[0].getDeniedFields());
final String failingQuery3 = q;
e = expectThrows(ElasticsearchParseException.class,
() -> RoleDescriptor.parse("test", new BytesArray(failingQuery3), false,
XContentType.JSON));
assertThat(e.getDetailedMessage(), containsString("["fields": [...] format has " +
"changed for field permissions in role [test]" +
", use ["field_security": {"grant": [...],"except": [...]}} instead]);

public void testFieldPermissionsHashCodeThreadSafe() throws Exception {
final int numThreads = scaledRandomIntBetween(4, 16);
final FieldPermissions fieldPermissions = new FieldPermissions(  
new FieldPermissionsDefinition(new String[] {"*"}, new String[] {"foo"}));
final CountDownLatch latch = new CountDownLatch(numThreads + 1);
final AtomicReferenceArray<Integer> hashCodes = new AtomicReferenceArray<>(numThreads);
List<Thread> threads = new ArrayList<>(numThreads);
for (int i = 0; i < numThreads; i++) {
    final int threadNum = i;
    threads.add(new Thread(() -> {
        latch.countDown();
        try {
            latch.await();
        } catch (InterruptedException e) {
            Thread.currentThread().interrupt();
        }
        final int hashCode = fieldPermissions.hashCode();
        hashCodes.set(threadNum, hashCode);
    }));
}
for (Thread thread : threads) {
    thread.start();
}
latch.countDown();
for (Thread thread : threads) {
    thread.join();
}
final int hashCode = fieldPermissions.hashCode();
for (int i = 0; i < numThreads; i++) {
    assertEquals((Integer) hashCode, hashCodes.get(i));
}
}

public void testAllFieldIsAutomaticallyExcludedIfNotExplicitlyGranted() throws Exception {
    final FieldPermissions fieldPermissions = new FieldPermissions(
        new FieldPermissionsDefinition(new String[] { "_a*" }, new String[0]));
    assertTrue(fieldPermissions.grantsAccessTo("_animal"));
    assertFalse(fieldPermissions.grantsAccessTo("_all"));
}

public void testAllFieldIsNotExcludedIfExplicitlyGranted() throws Exception {
    final String[] grant = { "foo", "bar", "baz", "_all" };
    Collections.shuffle(Arrays.asList(grant), random());

    final FieldPermissions fieldPermissions = new FieldPermissions(
        new FieldPermissionsDefinition(grant, new String[0]));
    assertTrue(fieldPermissions.grantsAccessTo("_all"));
    assertTrue(fieldPermissions.grantsAccessTo("foo"));
    assertTrue(fieldPermissions.grantsAccessTo("bar"));
    assertTrue(fieldPermissions.grantsAccessTo("baz"));
    assertFalse(fieldPermissions.grantsAccessTo(randomAlphaOfLengthBetween(5, 8)));
}
/*
 * Copyright Elasticsearch B.V. and/or licensed to Elasticsearch B.V. under one
 * or more contributor license agreements. Licensed under the Elastic License;
 * you may not use this file except in compliance with the Elastic License.
 */
package org.elasticsearch.license;

import org.apache.http.message.BasicHeader;
import org.elasticsearch.ElasticsearchSecurityException;
import org.elasticsearch.action.DocWriteResponse;
import org.elasticsearch.action.admin.cluster.health.ClusterHealthResponse;
import org.elasticsearch.action.admin.cluster.node.stats.NodesStatsResponse;
import org.elasticsearch.action.admin.cluster.stats.ClusterStatsIndices;
import org.elasticsearch.action.admin.cluster.stats.ClusterStatsResponse;
import org.elasticsearch.action.admin.indices.stats.IndicesStatsResponse;
import org.elasticsearch.action.index.IndexResponse;
import org.elasticsearch.client.Client;
import org.elasticsearch.client.Response;
import org.elasticsearch.client.ResponseException;
import org.elasticsearch.client.transport.NoNodeAvailableException;
import org.elasticsearch.client.transport.TransportClient;
import org.elasticsearch.cluster.routing.ShardRoutingState;
import org.elasticsearch.common.network.NetworkModule;
import org.elasticsearch.common.settings.SecureString;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.util.concurrent.ThreadContext;
import org.elasticsearch.discovery.DiscoveryModule;
import org.elasticsearch.node.MockNode;
import org.elasticsearch.node.Node;
import org.elasticsearch.plugins.Plugin;
import org.elasticsearch.rest.RestStatus;
import org.elasticsearch.test.SecurityIntegTestCase;
import org.elasticsearch.test.SecuritySettingsSource;
import org.elasticsearch.test.SecuritySettingsSourceField;
import org.elasticsearch.test.discovery.TestZenDiscovery;
import org.elasticsearch.test.junit.annotations.TestLogging;
import org.elasticsearch.transport.Netty4Plugin;
import org.elasticsearch.transport.Transport;
import org.elasticsearch.xpack.core.TestXPackTransportClient;
import org.elasticsearch.xpack.core.XPackField;
import org.elasticsearch.xpack.core.security.SecurityField;
import org.elasticsearch.xpack.core.security.action.user.GetUsersResponse;
import org.elasticsearch.xpack.core.security.authc.support.UsernamePasswordToken;
import org.elasticsearch.xpack.core.security.client.SecurityClient;
import org.elasticsearch.xpack.core.security.LocalStateSecurity;
import org.junit.After;
import org.junit.Before;
import java.nio.file.Files;
import java.nio.file.Path;
import java.util.ArrayList;
import java.util.Arrays;
import java.util.Collection;
import static org.elasticsearch.common.xcontent.XContentFactory.jsonBuilder;
import static org.elasticsearch.test.hamcrest.ElasticsearchAssertions.assertNoFailures;
import static org.hamcrest.Matchers.containsString;
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indices:
  - names: '*'
    privileges: [manage]
  - names: '/.*/'
    privileges: [write]
  - names: 'test'
    privileges: [read]
  - names: 'test1'
    privileges: [read]

"n" +
"role_a\n" +
"indices:\n" +
"  - names: 'a\n" +
"  privileges: [all]\n" +
"\n" +
"role_b:\n" +
"indices:\n" +
"  - names: 'b\n" +
"  privileges: [all]\n";

public static final String USERS =
  SecuritySettingsSource.CONFIG_STANDARD_USER +
  "user_a:{plain}passwd\n" +
  "user_b:{plain}passwd\n";

public static final String USERS_ROLES =
  SecuritySettingsSource.CONFIG_STANDARD_USER_ROLES +
  "role_a:user_a,user_b\n" +
  "role_b:user_b\n";

@Override
protected String configRoles() {
  return ROLES;
}

@Override
protected String configUsers() {
  return USERS;
}

@Override
protected String configUsersRoles() {
  return USERS_ROLES;
}

@Override
public Settings nodeSettings(int nodeOrdinal) {
  return Settings.builder().put(super.nodeSettings(nodeOrdinal))
.put(NetworkModule.HTTP_ENABLED.getKey(), true)
    .put(TestZenDiscovery.USE_MOCK_PINGS.getKey(), false)
    .build();
}

@Override
protected Collection<Class<? extends Plugin>> nodePlugins() {
    ArrayList<Class<? extends Plugin>> plugins = new ArrayList<>(super.nodePlugins());
    plugins.add(Netty4Plugin.class); // for http
    return plugins;
}

@Override
protected int maxNumberOfNodes() {
    return super.maxNumberOfNodes() + 1;
}

@Before
public void resetLicensing() {
    enableLicensing();
}

@After
public void cleanupSecurityIndex() {
    deleteSecurityIndex();
}

public void testEnableDisableBehaviour() throws Exception {
    IndexResponse indexResponse = index("test", "type", jsonBuilder()
        .startObject()
        .field("name", "value")
        .endObject());
    assertEquals(DocWriteResponse.Result.CREATED, indexResponse.getResult());

    indexResponse = index("test1", "type", jsonBuilder()
        .startObject()
        .field("name", "value1")
        .endObject());
    assertEquals(DocWriteResponse.Result.CREATED, indexResponse.getResult());

    refresh();
    // wait for all replicas to be started (to make sure that there are no more cluster state updates when we disable
    // licensing
    assertBusy(() -> assertTrue(client().admin().cluster().prepareState().get().getState().routingTable()
        .shardsWithState(ShardRoutingState.INITIALIZING).isEmpty()));

    Client client = internalCluster().transportClient();
disableLicensing();

assertElasticsearchSecurityException(() -> client.admin().indices().prepareStats().get());
assertElasticsearchSecurityException(() -> client.admin().cluster().prepareClusterStats().get());
assertElasticsearchSecurityException(() -> client.admin().cluster().prepareHealth().get());
assertElasticsearchSecurityException(() -> client.admin().cluster().prepareNodesStats().get());

enableLicensing(randomFrom(License.OperationMode.values()));

IndicesStatsResponse indicesStatsResponse = client.admin().indices().prepareStats().get();
assertNoFailures(indicesStatsResponse);

ClusterStatsResponse clusterStatsNodeResponse = client.admin().cluster().prepareClusterStats().get();
assertThat(clusterStatsNodeResponse, notNullValue());
ClusterStatsIndices indices = clusterStatsNodeResponse.getIndicesStats();
assertThat(indices, notNullValue());
assertThat(indices.getIndexCount(), greaterThanOrEqualTo(2));

ClusterHealthResponse clusterIndexHealth = client.admin().cluster().prepareHealth().get();
assertThat(clusterIndexHealth, notNullValue());

NodesStatsResponse nodeStats = client.admin().cluster().prepareNodesStats().get();
assertThat(nodeStats, notNullValue());
}

public void testRestAuthenticationByLicenseType() throws Exception {

Response response = getRestClient().performRequest("GET", "/");
// the default of the licensing tests is basic
assertThat(response.getStatusLine().getStatusCode(), is(200));
ResponseException e = expectThrows(ResponseException.class,
() -> getRestClient().performRequest("GET", "/_xpack/security/_authenticate");
assertThat(e.getResponse().getStatusLine().getStatusCode(), is(403));

// generate a new license with a mode that enables auth
License.OperationMode mode = randomFrom(License.OperationMode.GOLD,
License.OperationMode.TRIAL,
License.OperationMode.PLATINUM, License.OperationMode.STANDARD);
enableLicensing(mode);
e = expectThrows(ResponseException.class, () -> getRestClient().performRequest("GET", "/"));
assertThat(e.getResponse().getStatusLine().getStatusCode(), is(401));
e = expectThrows(ResponseException.class,
() -> getRestClient().performRequest("GET", "/_xpack/security/_authenticate");
assertThat(e.getResponse().getStatusLine().getStatusCode(), is(401));

final String basicAuthValue =
UsernamePasswordToken.basicAuthHeaderValue(SecuritySettingsSource.TEST_USER_NAME,
new SecureString(SecuritySettingsSourceField.TEST_PASSWORD.toCharArray()));
response = getRestClient().performRequest("GET", "/", new BasicHeader("Authorization", basicAuthValue));
assertThat(response.getStatusLine().getStatusCode(), is(200));
response = getRestClient().performRequest("GET", "/_xpack/security/_authenticate",
        new BasicHeader("Authorization", basicAuthValue));
assertThat(response.getStatusLine().getStatusCode(), is(200));
}

public void testSecurityActionsByLicenseType() throws Exception {
    // security actions should not work!
    Settings settings = internalCluster().transportClient().settings();
    try (TransportClient client = new TestXPackTransportClient(settings, LocalStateSecurity.class)) {
        client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress());
        new SecurityClient(client).prepareGetUsers().get();
        fail("security actions should not be enabled!");
    } catch (ElasticsearchSecurityException e) {
        assertEquals(e.status(), RestStatus.FORBIDDEN);
        assertEquals(e.getMessage(), containsString("non-compliant"));
    }

    // enable a license that enables security
    License.OperationMode mode = randomFrom(License.OperationMode.GOLD,
            License.OperationMode.TRIAL,
            License.OperationMode.PLATINUM, License.OperationMode.STANDARD);
    enableLicensing(mode);
    // security actions should not work!
    try (TransportClient client = new TestXPackTransportClient(settings, LocalStateSecurity.class)) {
        client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress());
        GetUsersResponse response = new SecurityClient(client).prepareGetUsers().get();
        assertNotNull(response);
    }

    public void testTransportClientAuthenticationByLicenseType() throws Exception {
        Settings.Builder builder = Settings.builder()
            .put(internalCluster().transportClient().settings());
        // remove user info
        builder.remove(SecurityField.USER_SETTING.getKey());
        builder.remove(ThreadContext.PREFIX + UsernamePasswordToken.BASIC_AUTH_HEADER);
        // basic has no auth
        try (TransportClient client = new TestXPackTransportClient(builder.build(), LocalStateSecurity.class)) {
            client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress());
            assertGreenClusterState(client);
        }
}
// enable a license that enables security
License.OperationMode mode = randomFrom(License.OperationMode.GOLD,
License.OperationMode.TRIAL,
License.OperationMode.PLATINUM, License.OperationMode.STANDARD);
enableLicensing(mode);

try (TransportClient client = new TestXPackTransportClient(builder.build(), LocalStateSecurity.class)) {
    client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress);
    client.admin().cluster().prepareHealth().get();
    fail("should not have been able to connect to a node!");
} catch (NoNodeAvailableException e) {
    // expected
}

public void testNodeJoinWithoutSecurityExplicitlyEnabled() throws Exception {
    License.OperationMode mode = randomFrom(License.OperationMode.GOLD,
License.OperationMode.PLATINUM, License.OperationMode.STANDARD);
    enableLicensing(mode);
    ensureGreen();

    Path home = createTempDir();
    Path conf = home.resolve("config");
    Files.createDirectories(conf);
    Settings nodeSettings = Settings.builder()
        .put(nodeSettings(maxNumberOfNodes() - 1).filter(s -> "xpack.security.enabled".equals(s) == false))
        .put("node.name", "my-test-node")
        .put("network.host", "localhost")
        .put("cluster.name", internalCluster().getClusterName())
        .put("discovery.zen.minimum_master_nodes",
            internalCluster().getInstance(Settings.class).get("discovery.zen.minimum_master_nodes"))
        .put("path.home", home)
        .put(TestZenDiscovery.USE_MOCK_PINGS.getKey(), false)
        .put(DiscoveryModule.DISCOVERY_TYPE_SETTING.getKey(), "test-zen")
        .put(DiscoveryModule.DISCOVERY_HOSTS_PROVIDER_SETTING.getKey(), "test-zen")
        .build();
    Collection<Class<? extends Plugin>> mockPlugins = Arrays.asList(LocalStateSecurity.class,
TestZenDiscovery.TestPlugin.class);
    try (Node node = new MockNode(nodeSettings, mockPlugins)) {
        node.start();
        ensureStableCluster(cluster().size() + 1);
    }
}

private static void assertElasticsearchSecurityException(ThrowingRunnable runnable) {
    ElasticsearchSecurityException ee = expectThrows(ElasticsearchSecurityException.class, runnable);
}
assertThat(ee.getMetadata(LicenseUtils.EXPIRED_FEATURE_METADATA),
        hasItem(XPackField.SECURITY));
        
    } catch (Exception e) {
        // Expected exception
        return;
    }
    
    public static void disableLicensing() {
        disableLicensing(License.OperationMode.BASIC);
    }
    
    public static void disableLicensing(License.OperationMode operationMode) {
        for (XPackLicenseState licenseState : internalCluster().getInstances(XPackLicenseState.class)) {
            licenseState.update(operationMode, false, null);
        }
    }
    
    public static void enableLicensing() {
        enableLicensing(License.OperationMode.BASIC);
    }
    
    public static void enableLicensing(License.OperationMode operationMode) {
        for (XPackLicenseState licenseState : internalCluster().getInstances(XPackLicenseState.class)) {
            licenseState.update(operationMode, true, null);
        }
    }

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This API enables you to delete licensing information.

```
DELETE /_xpack/license
```

When your license expires, the X-Pack operates in a degraded mode. For more information, see /license-expiration.html.[License Expiration].

You must have `manage` cluster privileges to use this API. For more information, see /security-privileges.html.[Security Privileges].
The following example queries the info API:

[source,js]
-------------------------------------------
DELETE _xpack/license
-------------------------------------------

// CONSOLE
// TEST[skip:license testing issues]

When the license is successfully deleted, the API returns the following response:
[source,js]
-------------------------------------------
{
  "acknowledged": true
}
-------------------------------------------

// NOTCONSOLE
[role="xpack"]
[testenv="basic"]
[[get-license]]
=== Get License API

This API enables you to retrieve licensing information.

[float]
==== Request

`GET /_xpack/license`

[float]
==== Description

This API returns information about the type of license, when it was issued, and when it expires, for example.

For more information about the different types of licenses, see https://www.elastic.co/subscriptions.

[float]
==== Query Parameters

`local`::
(boolean) Specifies whether to retrieve local information. The default value is 'false', which means the information is retrieved from the master node.
==== Authorization

You must have `monitor` cluster privileges to use this API. For more information, see [Security Privileges](xpack-ref/security-privileges.html).

==== Examples

The following example provides information about a basic license:

[source,js]
-------------------
GET _xpack/license
-------------------

// CONSOLE

[source,js]
-------------------
{
    "license": {
        "status": "active",
        "uid": "cbff45e7-c553-41f7-ae4f-9205eabd80xx",
        "type": "basic",
        "issue_date": "2018-02-22T23:12:05.550Z",
        "issue_date_in_millis": 1519341125550,
        "max_nodes": 1000,
        "issued_to": "test",
        "issuer": "elasticsearch",
        "start_date_in_millis": -1
    }
}
-------------------

// TESTRESPONSE["cbff45e7-c553-41f7-ae4f-9205eabd80xx"]
// TESTRESPONSE["basic"]
// TESTRESPONSE["2018-02-22T23:12:05.550Z"]
// TESTRESPONSE[1519341125550]
// TESTRESPONSE[1000]
// TESTRESPONSE["test"]
// TESTRESPONSE["elasticsearch"]
[role="xpack"]
[testenv="basic"]
[[update-license]]

=== Update License API

This API enables you to update your license.
==== Request

`PUT _xpack/license`

==== Description

You can update your license at runtime without shutting down your nodes. License updates take effect immediately. If the license you are installing does not support all of the features that were available with your previous license, however, you are notified in the response. You must then re-submit the API request with the `acknowledge` parameter set to `true`.

For more information about the different types of licenses, see https://www.elastic.co/subscriptions.

==== Query Parameters

`acknowledge`:
(type: boolean) Specifies whether you acknowledge the license changes. The default value is `false`.

==== Request Body

`licenses`:
(type: array) A sequence of one or more JSON documents containing the license information.

==== Authorization

If security is enabled, you need `manage` cluster privileges to install the license.

If security is enabled and you are installing a gold or platinum license, you must enable TLS on the transport networking layer before you install the license. See <<configuring-tls>>.

==== Examples

The following example updates to a basic license:
POST _xpack/license
{
  "licenses": [
    {
      "uid": "893361dc-9749-4997-93cb-802e3d7fa4xx",
      "type": "basic",
      "issue_date_in_millis": 1411948800000,
      "expiry_date_in_millis": 1914278399999,
      "max_nodes": 1,
      "issued_to": "issuedTo",
      "issuer": "issuer",
      "signature": "xx"
    }
  ]
}

// CONSOLE
// TEST[skip:license testing issues]

NOTE: These values are invalid; you must substitute the appropriate content from your license file.

You can alternatively use a `curl` command, for example:

[source,js]
[source,shell]
curl -X PUT -u <user> 'http://<host>:<port>/_xpack/license' -H "Content-Type: application/json" -d @license.json

// NOTCONSOLE

On Windows machine, use the following command:

[source,shell]

gc .\license.json | Invoke-WebRequest -uri http://<host>:<port>/_xpack/license -Credential elastic -Method Put -ContentType "application/json"

In these examples,

* `<user>` is a user ID with the appropriate authority.
* `<host>` is the hostname of the {es} node (`localhost` if executing locally)
* `<port>` is the http port (defaults to `9200`)
* `license.json` is the license JSON file
NOTE: If your {es} node has SSL enabled on the HTTP interface, you must start your URL with `https://`

If you previously had a license with more features than the basic license, you receive the following response:

[source,js]

```
------------------------------------------------------------
{
  "acknowledged": false,
  "license_status": "valid",
  "acknowledge": {
    "message": "This license update requires acknowledgement. To acknowledge the license, please read the following messages and update the license again, this time with the "acknowledge=true" parameter."
    "watcher": ["Watcher will be disabled"],
    "logstash": ["Logstash will no longer poll for centrally-managed pipelines"],
    "security": ["The following X-Pack security functionality will be disabled: ..."]
  }
}
------------------------------------------------------------
```

To complete the update, you must re-submit the API request and set the `acknowledge` parameter to `true`. For example:

[source,js]

```
POST _xpack/license?acknowledge=true
{
  "licenses": [
    {
      "uid": "893361dc-9749-4997-93cb-802e3d7fa4xx",
      "type": "basic",
      "issue_date_in_millis": 1411948800000,
      "expiry_date_in_millis": 1914278399999,
      "max_nodes": 1,
      "issued_to": "issuedTo",
      "issuer": "issuer",
      "signature": "xx"
    }
  ]
}
```
// CONSOLE
// TEST[skip:license testing issues]

Alternatively:

[source,sh]

-----------------------------------------------
curl -XPUT -u elastic 'http://<host>:<port>/_xpack/license?acknowledge=true' -H "Content-Type: application/json"
-d @license.json
-----------------------------------------------

// NOTCONSOLE

For more information about the features that are disabled when you downgrade your license, see {xpack-ref}/license-expiration.html[License Expiration].

[role="xpack"]
[[license-settings]]

=== {xpack} License Settings
++++
<titleabbrev>License Settings</titleabbrev>
++++

You can configure this licensing setting in the `elasticsearch.yml` file. For more information, see
{xpack-ref}/license-management.html[{xpack} License Management].

`xpack.license.self_generated.type`::
Set to `basic` (default) to enable basic {xpack} features. +
+
--
If set to `trial`, the self-generated license gives access only to all the features of a x-pack for 30 days. You can later downgrade the cluster to a basic license if needed.
--
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// Transitive dependencies of this project determined from the
Apache Extras for Apache log4j.

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A number of small but very helpful changes have been contributed by Adrien Grand (https://github.com/jpountz)

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## Overview ##

[YAML](http://yaml.org) is a data serialization format designed for human readability and interaction with scripting languages.
SnakeYAML is a YAML processor for the Java Virtual Machine.

## SnakeYAML features ##

* **a complete** [YAML 1.1 processor](http://yaml.org/spec/1.1/current.html). In particular, SnakeYAML can parse all examples from the specification.
* Unicode support including UTF-8/UTF-16 input/output.
* high-level API for serializing and deserializing native Java objects.
* support for all types from the [YAML types repository](http://yaml.org/type/index.html).
* relatively sensible error messages.

## Info ##

* [Changes](https://bitbucket.org/asomov/snakeyaml/wiki/Changes)
* [Documentation](https://bitbucket.org/asomov/snakeyaml/wiki/Documentation)

## Contribute ##

* Mercurial DVCS is used to dance with the [source code](https://bitbucket.org/asomov/snakeyaml/src).
* If you find a bug in SnakeYAML, please [file a bug report](https://bitbucket.org/asomov/snakeyaml/issues?status=new&status=open).
* You may discuss SnakeYAML at [the mailing list](http://groups.google.com/group/snakeyaml-core).

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The name files form the Census report is a government document which I don't think can be copyrighted.

The file special-jargon.50 uses common.lst and word.lst from the "Unofficial Jargon File Word Lists" which is derived from "The Jargon File". All of which is in the Public Domain. This file also contain a few extra UNIX terms which are found in the file "unix-terms" in the special/ directory.
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The 60 level includes all words appearing in at least 2 of the 12 dictionaries as indicated by the 12Dicts package.

The 70 level includes Brian’s frequency class 0 and the 74,550 common dictionary words from the MWords package. The common dictionary words, like those from the 12Dicts package, have had all likely inflections added. The 70 level also included the 5desk list from version 4.0 of the 12Dics package which is the public domain.

The 80 level includes the ENABLE word list, all the lists in the ENABLE supplement package (except for ABLE), the "UK Advanced Cryptics Dictionary” (UKACD), the list of signature words in from YAWL package, and the 10,196 places list from the MWords package.

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.
It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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***The art of simplicity is a puzzle of complexity.***

## Overview ##

[YAML](http://yaml.org) is a data serialization format designed for human readability and interaction with scripting languages.

SnakeYAML is a YAML processor for the Java Virtual Machine.

## SnakeYAML features ##

* a **complete** [YAML 1.1 processor](http://yaml.org/spec/1.1/current.html). In particular, SnakeYAML can parse all examples from the specification.
* Unicode support including UTF-8/UTF-16 input/output.
* high-level API for serializing and deserializing native Java objects.
* support for all types from the [YAML types repository](http://yaml.org/type/index.html).
* relatively sensible error messages.

## Info ##

* [Changes](https://bitbucket.org/asomov/snakeyaml/wiki/Changes)
* [Documentation](https://bitbucket.org/asomov/snakeyaml/wiki/Documentation)

## Contribute ##

* Mercurial DVCS is used to dance with the [source code](https://bitbucket.org/asomov/snakeyaml/src).
* If you find a bug in SnakeYAML, please [file a bug report](https://bitbucket.org/asomov/snakeyaml/issues?status=new&status=open).
* You may discuss SnakeYAML at [the mailing list](http://groups.google.com/group/snakeyaml-core).

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[role="xpack"]
[[license-settings]]
=== {xpack} License Settings
++++
<titleabbrev>License Settings</titleabbrev>
++++

You can configure this licensing setting in the `elasticsearch.yml` file.
For more information, see
{xpack-ref}/license-management.html[{xpack} License Management].

`xpack.license.self_generated.type`::
Set to `basic` (default) to enable basic {xpack} features. +
+ --
If set to `trial`, the self-generated license gives access only to all the features
of a x-pack for 30 days. You can later downgrade the cluster to a basic license if needed.
--
[role="xpact"]
[testenv="basic"]
[[delete-license]]
=== Delete License API

This API enables you to delete licensing information.

[float]
==== Request

`DELETE /_xpack/license`

[float]
==== Description

When your license expires, {xpack} operates in a degraded mode. For more information, see
{xpack-ref}/license-expiration.html[License Expiration].

[float]
==== Authorization

You must have `manage` cluster privileges to use this API. For more information, see
{xpack-ref}/security-privileges.html[Security Privileges].

[float]
==== Examples

The following example queries the info API:

[source,js]
------------------------------------------------------------
DELETE _xpack/license
------------------------------------------------------------
// CONSOLE
// TEST[skip:license testing issues]
When the license is successfully deleted, the API returns the following response:
[source,js]
-----------------------------------------------------------------------------------
{
  "acknowledged": true
}
-----------------------------------------------------------------------------------

// NOTCONSOLE
[role="xpack"]
[testenv="basic"]
[get-license]
=== Get license API

This API enables you to retrieve licensing information.

[get]
==== Request

`GET /_xpack/license`

[get]
==== Description

This API returns information about the type of license, when it was issued, and when it expires, for example.

For more information about the different types of licenses, see https://www.elastic.co/subscriptions.

[get]
==== Query Parameters

`local`
(boolean) Specifies whether to retrieve local information. The default value is 'false', which means the information is retrieved from the master node.

[get]
==== Authorization

You must have 'monitor' cluster privileges to use this API.
For more information, see {xpack-ref}/security-privileges.html[Security Privileges].

[get]
==== Examples
The following example provides information about a basic license:

[source.js]
-----------------------------
GET _xpack/license
-----------------------------
// CONSOLE

[source.js]

```
{
  "license": {
    "status": "active",
    "uid": "cbff45e7-c553-41f7-ae4f-9205eabd80xx",
    "type": "basic",
    "issue_date": "2018-02-22T23:12:05.550Z",
    "issue_date_in_millis": 1519341125550,
    "max_nodes": 1000,
    "issued_to": "test",
    "issuer": "elasticsearch",
    "start_date_in_millis": -1
  }
}
```

// TESTRESPONSE["cbff45e7-c553-41f7-ae4f-9205eabd80xx"/$body.license.uid/]
// TESTRESPONSE["basic"/$body.license.type/]
// TESTRESPONSE["2018-02-22T23:12:05.550Z"/$body.license.issue_date/]
// TESTRESPONSE[1519341125550/$body.license.issue_date_in_millis/]
// TESTRESPONSE[1000/$body.license.max_nodes/]
// TESTRESPONSE["test"/$body.license.issued_to/]
// TESTRESPONSE["elasticsearch"/$body.license.issuer/]

[role="xpack"]
[testenv="basic"]
[[update-license]]
=== Update License API

This API enables you to update your license.

[float]
==== Request

`PUT _xpack/license`

[float]
==== Description

You can update your license at runtime without shutting down your nodes.
License updates take effect immediately. If the license you are installing does not support all of the features that were available with your previous license, however, you are notified in the response. You must then re-submit the API request with the `acknowledge` parameter set to `true`.

For more information about the different types of licenses, see https://www.elastic.co/subscriptions.

[Float]

==== Query Parameters

`acknowledge`::
(boolean) Specifies whether you acknowledge the license changes. The default value is `false`.

[Float]

==== Request Body

`licenses`::
(array) A sequence of one or more JSON documents containing the license information.

[Float]

==== Authorization

If `{security}` is enabled, you need `manage` cluster privileges to install the license.

If `{security}` is enabled and you are installing a gold or platinum license, you must enable TLS on the transport networking layer before you install the license. See `<configuring-tls>`.

[Float]

==== Examples

The following example updates to a basic license:

[source,js]
```
POST _xpack/license
{
  "licenses": [
    {
      "uid":"893361dc-9749-4997-93cb-802e3d7fa4xx",
      "type":"basic",
      "issue_date_in_millis":1411948800000,
      "expiry_date_in_millis":1914278399999,
    }
  ]
```
"max_nodes":1,
"issued_to":"issuedTo",
"issuer":"issuer",
"signature":"xx"
}
]

// CONSOLE
// TEST[skip:license testing issues]

NOTE: These values are invalid; you must substitute the appropriate content from your license file.

You can alternatively use a `curl` command, for example:

[source,js]
[source,shell]

---
curl -XPUT -u <user> 'http://<host>:<port>/_xpack/license' -H "Content-Type: application/json" -d @license.json
---

// NOTCONSOLE

On Windows machine, use the following command:

[source,shell]

---
gc .license.json | Invoke-WebRequest -uri http://<host>:<port>/_xpack/license -Credential elastic -Method Put -ContentType "application/json"
---

In these examples,

* `<user>` is a user ID with the appropriate authority.
* `<host>` is the hostname of the {es} node (`localhost` if executing locally)
* `<port>` is the http port (defaults to `9200`)
* `license.json` is the license JSON file

NOTE: If your {es} node has SSL enabled on the HTTP interface, you must start your URL with `https://`

If you previously had a license with more features than the basic license, you receive the following response:

[source,js]

---
This license update requires acknowledgement. To acknowledge the license, please read the following messages and update the license again, this time with the "acknowledge=true" parameter:

`"watcher": [  
  "Watcher will be disabled"
],
"logstash": [  
  "Logstash will no longer poll for centrally-managed pipelines"
],
"security": [  
  "The following X-Pack security functionality will be disabled: ..."]
}

To complete the update, you must re-submit the API request and set the 'acknowledge' parameter to 'true'. For example:

```js
POST _xpack/license?acknowledge=true
{
  "licenses": [
    {
      "uid": "893361dc-9749-4997-93cb-802e3d7fa4xx",
      "type": "basic",
      "issue_date_in_millis": 1411948800000,
      "expiry_date_in_millis": 1914278399999,
      "max_nodes": 1,
      "issued_to": "issuedTo",
      "issuer": "issuer",
      "signature": "xx"
    }
  ]
}
```

Alternatively:

```sh
curl -XPUT -u elastic 'http://<host>:<port>/_xpack/license?acknowledge=true' -H "Content-Type: application/json" -d @license.json
```
// NOTCONSOLE

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May 22, 2015

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The code for the t-digest was originally authored by Ted Dunning

A number of small but very helpful changes have been contributed by Adrien Grand (https://github.com/jpountz)

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// Transitive dependencies of this project determined from the maven pom organized by organization.
// ------------------------------------------------------------------

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From: 'an unknown organization'
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 *
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 * { @link org.elasticsearch.license.PutLicenseRequest }. This action is handled by the master node, which places
 * the signed license into the cluster state. Each node listens for cluster state updates via the
 * { @link org.elasticsearch.license.LicenseService }, and updates its local copy of the license when it detects
 * changes in the cluster state.
 *
 * The logic for which features are available given the current license is handled by
 * { @link org.elasticsearch.license.XPackLicenseState }, which is updated by the
 * { @link org.elasticsearch.license.LicenseService } when the license changes.
 */
package org.elasticsearch.license;

import org.elasticsearch.action.support.master.MasterNodeReadOperationRequestBuilder;
import org.elasticsearch.client.ElasticsearchClient;

public class GetLicenseRequestBuilder extends MasterNodeReadOperationRequestBuilder<GetLicenseRequest,
                                GetLicenseResponse,
                                GetLicenseRequestBuilder> { }

public GetLicenseRequestBuilder(ElasticsearchClient client) {
    this(client, GetLicenseAction.INSTANCE);
}
/**
 * Creates new get licenses request builder
 *
 * @param client elasticsearch client
 */
public GetLicenseRequestBuilder(ElasticsearchClient client, GetLicenseAction action) {
    super(client, action, new GetLicenseRequest());
}

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package org.elasticsearch.license;

import org.elasticsearch.action.ActionRequestValidationException;
import org.elasticsearch.action.support.master.AcknowledgedRequest;
import org.elasticsearch.common.io.stream.StreamInput;
import org.elasticsearch.common.io.stream.StreamOutput;
import java.io.IOException;

public class DeleteLicenseRequest extends AcknowledgedRequest<DeleteLicenseRequest> {

    public DeleteLicenseRequest() {
    }

    @Override
    public ActionRequestValidationException validate() {
        return null;
    }

    @Override
    public void readFrom(StreamInput in) throws IOException {
        super.readFrom(in);
    }

    @Override
    public void writeTo(StreamOutput out) throws IOException {
        super.writeTo(out);
    }

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}
package org.elasticsearch.license;

import org.elasticsearch.action.Action;

public class GetBasicStatusAction extends Action<GetBasicStatusResponse> {

    public static final GetBasicStatusAction INSTANCE = new GetBasicStatusAction();
    public static final String NAME = "cluster:admin/xpack/license/basic_status";

    private GetBasicStatusAction() {
        super(NAME);
    }

    @Override
    public GetBasicStatusResponse newResponse() {
        return new GetBasicStatusResponse();
    }
}

package org.elasticsearch.license;

import org.elasticsearch.action.support.master.AcknowledgedResponse;
import org.elasticsearch.common.Strings;
import org.elasticsearch.common.io.stream.StreamInput;
import org.elasticsearch.common.io.stream.StreamOutput;
import org.elasticsearch.common.xcontent.XContentBuilder;
import java.io.IOException;
import java.util.Collections;
import java.util.HashMap;
import java.util.Map;

public class PutLicenseResponse extends AcknowledgedResponse {

    private LicensesStatus status;
    private Map<String, String[]> acknowledgeMessages;
    private String acknowledgeHeader;

    PutLicenseResponse() {
    }

    public PutLicenseResponse(boolean acknowledged, LicensesStatus status) {


this(acknowledged, status, null, Collections.<String, String[]>emptyMap());
}

public PutLicenseResponse(boolean acknowledged, LicensesStatus status, String acknowledgeHeader,
    Map<String, String[]> acknowledgeMessages) {
    super(acknowledged);
    this.status = status;
    this.acknowledgeHeader = acknowledgeHeader;
    this.acknowledgeMessages = acknowledgeMessages;
}

public LicensesStatus status() {
    return status;
}

public Map<String, String[]> acknowledgeMessages() {
    return acknowledgeMessages;
}

public String acknowledgeHeader() {
    return acknowledgeHeader;
}

@Override
public void readFrom(StreamInput in) throws IOException {
    super.readFrom(in);
    status = LicensesStatus.fromId(in.readVInt());
    acknowledgeHeader = in.readOptionalString();
    int size = in.readVInt();
    Map<String, String[]> acknowledgeMessages = new HashMap<>(size);
    for (int i = 0; i < size; i++) {
        String feature = in.readString();
        int nMessages = in.readVInt();
        String[] messages = new String[nMessages];
        for (int j = 0; j < nMessages; j++) {
            messages[j] = in.readString();
        }
        acknowledgeMessages.put(feature, messages);
    }
    this.acknowledgeMessages = acknowledgeMessages;
}

@Override
public void writeTo(StreamOutput out) throws IOException {
    super.writeTo(out);
    out.writeVInt(status.id());
    out.writeOptionalString(acknowledgeHeader);
    out.writeVInt(acknowledgeMessages.size());
for (Map.Entry<String, String[]> entry : acknowledgeMessages.entrySet()) {
    out.writeString(entry.getKey());
    out.writeVInt(entry.getValue().length);
    for (String message : entry.getValue()) {
        out.writeString(message);
    }
}

@Override
protected void addCustomFields(XContentBuilder builder, Params params) throws IOException {
    switch (status) {
        case VALID:
            builder.field("license_status", "valid");
            break;
        case INVALID:
            builder.field("license_status", "invalid");
            break;
        case EXPIRED:
            builder.field("license_status", "expired");
            break;
        default:
            throw new IllegalArgumentException("unknown status [" + status + "] found");
    }
    if (!acknowledgeMessages.isEmpty()) {
        builder.startObject("acknowledge");
        builder.field("message", acknowledgeHeader);
        for (Map.Entry<String, String[]> entry : acknowledgeMessages.entrySet()) {
            builder.startArray(entry.getKey());
            for (String message : entry.getValue()) {
                builder.value(message);
            }
            builder.endArray();
        }
        builder.endObject();
    }
}

@Override
public String toString() {
    return Strings.toString(this, true, true);
}

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package org.elasticsearch.license;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.rest.RestController;
import org.elasticsearch.rest.RestRequest;
import org.elasticsearch.rest.action.RestToXContentListener;
import org.elasticsearch.xpack.core.XPackClient;
import org.elasticsearch.xpack.core.rest.XPackRestHandler;
import java.io.IOException;
import static org.elasticsearch.rest.RestRequest.Method.POST;
import static org.elasticsearch.rest.RestRequest.Method.PUT;
public class RestPutLicenseAction extends XPackRestHandler {
public RestPutLicenseAction(Settings settings, RestController controller) {
super(settings);
controller.registerHandler(POST, URI_BASE + "/license", this);
controller.registerHandler(PUT, URI_BASE + "/license", this);
}
@Override
public String getName() {
return "xpack_put_license_action";
}
@Override
public RestChannelConsumer doPrepareRequest(final RestRequest request, final XPackClient client) throws
IOException {
if (request.hasContent() == false) {
throw new IllegalArgumentException("The license must be provided in the request body");
}
PutLicenseRequest putLicenseRequest = new PutLicenseRequest();
putLicenseRequest.license(request.content(), request.getXContentType());
putLicenseRequest.acknowledge(request.paramAsBoolean("acknowledge", false));
putLicenseRequest.timeout(request.paramAsTime("timeout", putLicenseRequest.timeout()));
putLicenseRequest.masterNodeTimeout(request.paramAsTime("master_timeout",
putLicenseRequest.masterNodeTimeout()));
if ("basic".equals(putLicenseRequest.license().type())) {
throw new IllegalArgumentException("Installing basic licenses is no longer allowed. Use the POST " +
"/_xpack/license/start_basic API to install a basic license that does not expire.");
}
return channel -> client.es().admin().cluster().execute(PutLicenseAction.INSTANCE, putLicenseRequest,
new RestToXContentListener<>(channel));
}

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8140


null
builder.field("trial_was_started", false);
builder.field("error_message", status.getErrorMessage());
}

Map<String, String[]> acknowledgementMessages = response.getAcknowledgeMessages();
if (acknowledgementMessages.isEmpty() == false) {
    builder.startObject("acknowledge");
    builder.field("message", response.getAcknowledgementMessage());
    for (Map.Entry<String, String[]> entry : acknowledgementMessages.entrySet()) {
        builder.startArray(entry.getKey());
        for (String message : entry.getValue()) {
            builder.value(message);
        }
        builder.endArray();
    }
    builder.endObject();
}
builder.endObject();
return new BytesRestResponse(status.getRestStatus(), builder);

@Override
public String getName() {
    return "xpack_upgrade_to_trial_action";
}
*/

package org.elasticsearch.license;

import org.elasticsearch.action.ActionRequestBuilder;
import org.elasticsearch.client.ElasticsearchClient;

class PostStartBasicRequestBuilder extends ActionRequestBuilder<PostStartBasicRequest, PostStartBasicResponse> {

    PostStartBasicRequestBuilder(ElasticsearchClient client, PostStartBasicAction action) {
        super(client, action, new PostStartBasicRequest());
    }

    public PostStartBasicRequestBuilder setAcknowledge(boolean acknowledge) {
        request.acknowledge(acknowledge);
        return this;
    }
}
package org.elasticsearch.license;

import org.elasticsearch.action.support.master.AcknowledgedResponse;

public class DeleteLicenseResponse extends AcknowledgedResponse {

    DeleteLicenseResponse() {
    }

    DeleteLicenseResponse(boolean acknowledged) {
        super(acknowledged);
    }
}

class PostStartBasicResponse extends AcknowledgedResponse {

    private Map<String, String[]> acknowledgeMessages;
    private String acknowledgeMessage;

    enum Status {
        GENERATED_BASIC(true, null, RestStatus.OK),
        ALREADY_USING_BASIC(false, "Operation failed: Current license is basic.", RestStatus.FORBIDDEN),
    }

    import java.io.IOException;
    import java.util.Collections;
    import java.util.HashMap;
    import java.util.Map;
    import static org.elasticsearch.license.PostStartBasicResponse.Status.NEED_ACKNOWLEDGEMENT;

    public PostStartBasicResponse() {
        super(RestStatus.OK);
    }

    public PostStartBasicResponse(Status status) {
        super(status.code, status.message);
    }

    public PostStartBasicResponse(Status status, String[] acknowledgeMessages) {
        super(status.code, status.message);
        this.acknowledgeMessages = Collections.unmodifiableMap(new HashMap<>(acknowledgeMessages));
    }

    public PostStartBasicResponse(Status status, String[] acknowledgeMessages, String acknowledgeMessage) {
        super(status.code, status.message);
        this.acknowledgeMessages = Collections.unmodifiableMap(new HashMap<>(acknowledgeMessages));
        this.acknowledgeMessage = acknowledgeMessage;
    }

    public PostStartBasicResponse(Status status, String[] acknowledgeMessages, String acknowledgeMessage, AcknowledgedResponse acknowledgedResponse) {
        super(status.code, status.message);
        this.acknowledgeMessages = Collections.unmodifiableMap(new HashMap<>(acknowledgeMessages));
        this.acknowledgeMessage = acknowledgeMessage;
        this.acknowledged = acknowledgedResponse.isAcknowledged();
    }

    public String[] getAcknowledgeMessages() {
        return acknowledgeMessages == null ? null : acknowledgeMessages.clone();
    }

    public String getAcknowledgeMessage() {
        return acknowledgeMessage;
    }

    public boolean isAcknowledged() {
        return acknowledged;
    }

    public void setAcknowledged(boolean acknowledged) {
        this.acknowledged = acknowledged;
    }
}

package org.elasticsearch.action.support.master;

import org.elasticsearch.action.support.master.AcknowledgedResponse;
import org.elasticsearch.common.io.stream.StreamInput;
import org.elasticsearch.common.io.stream.StreamOutput;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.rest.RestStatus;
import java.io.IOException;
import java.util.Collections;
import java.util.HashMap;
import java.util.Map;
import static org.elasticsearch.license.PostStartBasicResponse.Status.NEED_ACKNOWLEDGEMENT;

class PostStartBasicResponse extends AcknowledgedResponse {

    private Map<String, String[]> acknowledgeMessages;
    private String acknowledgeMessage;

    enum Status {
        GENERATED_BASIC(true, null, RestStatus.OK),
        ALREADY_USING_BASIC(false, "Operation failed: Current license is basic.", RestStatus.FORBIDDEN),
    }

    import java.io.IOException;
    import java.util.Collections;
    import java.util.HashMap;
    import java.util.Map;
    import static org.elasticsearch.license.PostStartBasicResponse.Status.NEED_ACKNOWLEDGEMENT;

    public PostStartBasicResponse() {
        super(RestStatus.OK);
    }

    public PostStartBasicResponse(Status status) {
        super(status.code, status.message);
    }

    public PostStartBasicResponse(Status status, String[] acknowledgeMessages) {
        super(status.code, status.message);
        this.acknowledgeMessages = Collections.unmodifiableMap(new HashMap<>(acknowledgeMessages));
    }

    public PostStartBasicResponse(Status status, String[] acknowledgeMessages, String acknowledgeMessage) {
        super(status.code, status.message);
        this.acknowledgeMessages = Collections.unmodifiableMap(new HashMap<>(acknowledgeMessages));
        this.acknowledgeMessage = acknowledgeMessage;
    }

    public PostStartBasicResponse(Status status, String[] acknowledgeMessages, String acknowledgeMessage, AcknowledgedResponse acknowledgedResponse) {
        super(status.code, status.message);
        this.acknowledgeMessages = Collections.unmodifiableMap(new HashMap<>(acknowledgeMessages));
        this.acknowledgeMessage = acknowledgeMessage;
        this.acknowledged = acknowledgedResponse.isAcknowledged();
    }

    public String[] getAcknowledgeMessages() {
        return acknowledgeMessages == null ? null : acknowledgeMessages.clone();
    }

    public String getAcknowledgeMessage() {
        return acknowledgeMessage;
    }

    public boolean isAcknowledged() {
        return acknowledged;
    }

    public void setAcknowledged(boolean acknowledged) {
        this.acknowledged = acknowledged;
    }
}
private final boolean isBasicStarted;
private final String errorMessage;
private final RestStatus restStatus;

Status(boolean isBasicStarted, String errorMessage, RestStatus restStatus) {
    this.isBasicStarted = isBasicStarted;
    this.errorMessage = errorMessage;
    this.restStatus = restStatus;
}

boolean isBasicStarted() {
    return isBasicStarted;
}

String getErrorMessage() {
    return errorMessage;
}

RestStatus getRestStatus() {
    return restStatus;
}

private Status status;

PostStartBasicResponse() {
}

PostStartBasicResponse(Status status) {
    this(status, Collections.emptyMap(), null);
}

PostStartBasicResponse(Status status, Map<String, String[]> acknowledgeMessages, String acknowledgeMessage) {
    super(status != NEED_ACKNOWLEDGEMENT);
    this.status = status;
    this.acknowledgeMessages = acknowledgeMessages;
    this.acknowledgeMessage = acknowledgeMessage;
}

public Status getStatus() {
    return status;
}

@Override
public void readFrom(StreamInput in) throws IOException {


super.readFrom(in);
status = in.readEnum(Status.class);
acknowledgeMessage = in.readOptionalString();
int size = in.readVInt();
Map<String, String[]> acknowledgeMessages = new HashMap<>(size);
for (int i = 0; i < size; i++) {
    String feature = in.readString();
    int nMessages = in.readVInt();
    String[] messages = new String[nMessages];
    for (int j = 0; j < nMessages; j++) {
        messages[j] = in.readString();
    }
    acknowledgeMessages.put(feature, messages);
}
this.acknowledgeMessages = acknowledgeMessages;

@Override
public void writeTo(StreamOutput out) throws IOException {
    super.writeTo(out);
    out.writeEnum(status);
    out.writeOptionalString(acknowledgeMessage);
    out.writeVInt(acknowledgeMessages.size());
    for (Map.Entry<String, String[]> entry : acknowledgeMessages.entrySet()) {
        out.writeString(entry.getKey());
        out.writeVInt(entry.getValue().length);
        for (String message : entry.getValue()) {
            out.writeString(message);
        }
    }
}

@Override
protected void addCustomFields(XContentBuilder builder, Params params) throws IOException {
    if (status.isBasicStarted()) {
        builder.field("basic_was_started", true);
    } else {
        builder.field("basic_was_started", false);
        builder.field("error_message", status.getErrorMessage());
    }
    if (acknowledgeMessages.isEmpty() == false) {
        builder.startObject("acknowledge");
        builder.field("message", acknowledgeMessage);
        for (Map.Entry<String, String[]> entry : acknowledgeMessages.entrySet()) {
            builder.startArray(entry.getKey());
            for (String message : entry.getValue()) {
                builder.value(message);
            }
        }
    }
}
public class TransportDeleteLicenseAction extends TransportMasterNodeAction<DeleteLicenseRequest, DeleteLicenseResponse> {

    private final LicenseService licenseService;

    @Inject
    public TransportDeleteLicenseAction(Settings settings, TransportService transportService, ClusterService clusterService, LicenseService licenseService, ThreadPool threadPool, ActionFilters actionFilters, IndexNameExpressionResolver indexNameExpressionResolver) {
        super(settings, DeleteLicenseAction.NAME, transportService, clusterService, threadPool, actionFilters, indexNameExpressionResolver, DeleteLicenseRequest::new);
        this.licenseService = licenseService;
    }

    @Override
    protected String executor() {
        return ThreadPool.Names.MANAGEMENT;
    }
}
@Override
protected DeleteLicenseResponse newResponse() {
    return new DeleteLicenseResponse();
}

@Override
protected ClusterBlockException checkBlock(DeleteLicenseRequest request, ClusterState state) {
    return state.blocks().globalBlockedException(ClusterBlockLevel.METADATA_WRITE);
}

@Override
protected void masterOperation(final DeleteLicenseRequest request, ClusterState state, final ActionListener<DeleteLicenseResponse> listener) throws ElasticsearchException {
    licenseService.removeLicense(request, new ActionListener<ClusterStateUpdateResponse>() {
        @Override
        public void onResponse(ClusterStateUpdateResponse clusterStateUpdateResponse) {
            listener.onResponse(new DeleteLicenseResponse(clusterStateUpdateResponse.isAcknowledged()));
        }
        @Override
        public void onFailure(Exception e) {
            listener.onFailure(e);
        }
    });
}

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 */
package org.elasticsearch.license;

import org.apache.logging.log4j.Logger;
import org.apache.logging.log4j.message.ParameterizedMessage;
import org.apache.logging.log4j.util.Supplier;
import org.apache.lucene.util.BytesRef;
import org.elasticsearch.license.License.OperationMode;
import org.elasticsearch.watcher.FileChangesListener;
import org.elasticsearch.watcher.FileWatcher;
import org.elasticsearch.watcher.ResourceWatcherService;
import java.io.IOException;
import java.nio.file.Files;
import java.nio.file.Path;
import java.util.concurrent.atomic.AtomicBoolean;
import java.io.IOException;
import java.nio.file.Files;
import java.nio.file.Path;
import java.util.concurrent.atomic.AtomicBoolean;
/**
 * File based watcher for license [ @link OperationMode ]
 * Watches for changes in <code>licenseModePath</code>, use
 * [ @link #getCurrentOperationMode() ] to access the latest mode
 *
 * In case of failure to read a valid operation mode from <code>licenseModePath</code>,
 * the operation mode will default to PLATINUM
 */

public final class OperationModeFileWatcher implements FileChangesListener {
    private final ResourceWatcherService resourceWatcherService;
    private final Path licenseModePath;
    private final AtomicBoolean initialized = new AtomicBoolean();
    private final OperationMode defaultOperationMode = OperationMode.PLATINUM;
    private volatile OperationMode currentOperationMode = defaultOperationMode;
    private final Logger logger;
    private final Runnable onChange;

    public OperationModeFileWatcher(ResourceWatcherService resourceWatcherService, Path licenseModePath,
                                     Logger logger, Runnable onChange) {
        this.resourceWatcherService = resourceWatcherService;
        this.licenseModePath = licenseModePath;
        this.logger = logger;
        this.onChange = onChange;
    }

    public void init() {
        if (initialized.compareAndSet(false, true)) {
            final FileWatcher watcher = new FileWatcher(licenseModePath);
            watcher.addListener(this);
            try {
                resourceWatcherService.add(watcher, ResourceWatcherService.Frequency.HIGH);
                if (Files.exists(licenseModePath)) {
                    onChange(licenseModePath);
                }
            } catch (IOException e) {
                logger.error("couldn't initialize watching license mode file", e);
            }
        }
    }

    /**
     * Returns the current operation mode based on license mode file.
     * Defaults to [ @link OperationMode#PLATINUM ]
     */
    public OperationMode getCurrentOperationMode() {
        return currentOperationMode;
    }
}
@Override
public void onFileInit(Path file) {
    onChange(file);
}

@Override
public void onFileCreated(Path file) {
    onChange(file);
}

@Override
public void onFileDeleted(Path file) {
    onChange(file);
}

@Override
public void onFileChanged(Path file) {
    onChange(file);
}

private synchronized void onChange(Path file) {
    if (file.equals(licenseModePath)) {
        OperationMode newOperationMode = defaultOperationMode;
        try {
            if (Files.exists(licenseModePath) && Files.isReadable(licenseModePath)) {
                final byte[] content;
                try {
                    content = Files.readAllBytes(licenseModePath);
                } catch (IOException e) {
                    logger.error((Supplier<?>) () -> new ParameterizedMessage(  
                        "couldn't read operation mode from [{ }]", licenseModePath.toAbsolutePath()), e);
                    return;
                }
                // this UTF-8 conversion is much pickier than java String
                final String operationMode = new BytesRef(content).utf8ToString();
                try {
                    newOperationMode = OperationMode.resolve(operationMode);
                } catch (IllegalArgumentException e) {
                    logger.error((Supplier<?>) () -> new ParameterizedMessage(  
                        "invalid operation mode in [{ }]", licenseModePath.toAbsolutePath()), e);
                    return;
                }
            }
        } finally {
        }
    }
}
// set this after the fact to prevent that we are jumping back and forth first setting to default and then reading the
  // actual op mode resetting it.
  this.currentOperationMode = newOperationMode;
}  
onChange.run();
}  
}
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*/
package org.elasticsearch.license;

import org.elasticsearch.action.ActionResponse;
import org.elasticsearch.common.io.stream.StreamInput;
import org.elasticsearch.common.io.stream.StreamOutput;
import java.io.IOException;

class GetTrialStatusResponse extends ActionResponse {

  private boolean eligibleToStartTrial;

  GetTrialStatusResponse() {
  }

  GetTrialStatusResponse(boolean eligibleToStartTrial) {
    this.eligibleToStartTrial = eligibleToStartTrial;
  }

  boolean isEligibleToStartTrial() {
    return eligibleToStartTrial;
  }

  @Override
  public void readFrom(StreamInput in) throws IOException {
    eligibleToStartTrial = in.readBoolean();
  }

  @Override
  public void writeTo(StreamOutput out) throws IOException {
    out.writeBoolean(eligibleToStartTrial);
  }
}
import java.crypto.BadPaddingException;
import java.crypto.Cipher;
import java.crypto.IllegalBlockSizeException;
import java.crypto.NoSuchPaddingException;
import java.crypto.SecretKey;
import java.crypto.SecretKeyFactory;
import java.crypto.spec.PBEKeySpec;
import java.crypto.spec.SecretKeySpec;
import java.nio.charset.StandardCharsets;
import java.security.GeneralSecurityException;
import java.security.KeyFactory;
import java.security.MessageDigest;
import java.security.PrivateKey;
import java.security.PublicKey;
import java.security.SecureRandom;
import java.security.NoSuchAlgorithmException;
import java.security.InvalidKeyException;
import java.security.spec.InvalidKeySpecException;
import java.security.spec.PKCS8EncodedKeySpec;
import java.security.spec.X509EncodedKeySpec;
import java.util.Base64;

public class CryptUtils {
    // SALT must be at least 128bits for FIPS 140-2 compliance
    private static final byte[] SALT = {
        (byte) 0x74, (byte) 0x68, (byte) 0x69, (byte) 0x73,
        (byte) 0x69, (byte) 0x73, (byte) 0x74, (byte) 0x68,
        (byte) 0x65, (byte) 0x73, (byte) 0x61, (byte) 0x6C,
        (byte) 0x74, (byte) 0x77, (byte) 0x65, (byte) 0x75
    };
    private static final String KEY_ALGORITHM = "RSA";
    private static final char[] DEFAULT_PASS_PHRASE = "elasticsearch-license".toCharArray();
    private static final String KDF_ALGORITHM = "PBKDF2WithHmacSHA512";
    private static final int KDF_ITERATION_COUNT = 10000;
    private static final String CIPHER_ALGORITHM = "AES";
    // This can be changed to 256 once Java 9 is the minimum version
    // http://www.oracle.com/technetwork/java/javase/terms/readme/jdk9-readme-3852447.html#jce
    private static final int ENCRYPTION_KEY_LENGTH = 128;
    private static final SecureRandom RANDOM = new SecureRandom();
}
public static PrivateKey readEncryptedPrivateKey(byte[] fileContents) {
    return readEncryptedPrivateKey(fileContents, DEFAULT_PASS_PHRASE, false);
}

public static byte[] writeEncryptedPrivateKey(PrivateKey privateKey) {
    return writeEncryptedPrivateKey(privateKey, DEFAULT_PASS_PHRASE);
}

public static PrivateKey readEncryptedPrivateKey(byte[] fileContents, char[] passPhrase, boolean preV4) {
    byte[] keyBytes = preV4 ? decryptV3Format(fileContents) : decrypt(fileContents, passPhrase);
    PKCS8EncodedKeySpec privateKeySpec = new PKCS8EncodedKeySpec(keyBytes);
    try {
        return KeyFactory.getInstance(KEY_ALGORITHM).generatePrivate(privateKeySpec);
    } catch (NoSuchAlgorithmException | InvalidKeySpecException e) {
        throw new IllegalStateException(e);
    }
}

public static PublicKey readPublicKey(byte[] fileContents) {
    X509EncodedKeySpec publicKeySpec = new X509EncodedKeySpec(fileContents);
    try {
        return KeyFactory.getInstance(CryptUtils.KEY_ALGORITHM).generatePublic(publicKeySpec);
    } catch (NoSuchAlgorithmException | InvalidKeySpecException e) {
        throw new IllegalStateException(e);
    }
}

public static byte[] writeEncryptedPublicKey(PublicKey publicKey) {
    X509EncodedKeySpec encodedKeySpec = new X509EncodedKeySpec(publicKey.getEncoded());
    return encrypt(encodedKeySpec.getEncoded(), DEFAULT_PASS_PHRASE);
}
* Returns encrypted private key file content with provided <code>passPhrase</code>
*/
public static byte[] writeEncryptedPrivateKey(PrivateKey privateKey, char[] passPhrase) {
    PKCS8EncodedKeySpec encodedKeySpec = new PKCS8EncodedKeySpec(privateKey.getEncoded());
    return encrypt(encodedKeySpec.getEncoded(), passPhrase);
}

/**
* Encrypts provided <code>data</code> with <code>DEFAULT_PASS_PHRASE</code>
*/
static byte[] encrypt(byte[] data) {
    return encrypt(data, DEFAULT_PASS_PHRASE);
}

/**
* Decrypts provided <code>encryptedData</code> with <code>DEFAULT_PASS_PHRASE</code>
*/
static byte[] decrypt(byte[] encryptedData) {
    return decrypt(encryptedData, DEFAULT_PASS_PHRASE);
}

/**
* Encrypts provided <code>data</code> with <code>passPhrase</code>
*/
private static byte[] encrypt(byte[] data, char[] passPhrase) {
    try {
        final Cipher encryptionCipher = getEncryptionCipher(deriveSecretKey(passPhrase));
        return encryptionCipher.doFinal(data);
    } catch (IllegalBlockSizeException | BadPaddingException e) {
        throw new IllegalStateException(e);
    }
}

/**
* Decrypts provided <code>encryptedData</code> with <code>passPhrase</code>
*/
private static byte[] decrypt(byte[] encryptedData, char[] passPhrase) {
    try {
        final Cipher cipher = getDecryptionCipher(deriveSecretKey(passPhrase));
        return cipher.doFinal(encryptedData);
    } catch (IllegalBlockSizeException | BadPaddingException e) {
        throw new IllegalStateException(e);
    }
}

static byte[] encryptV3Format(byte[] data) {
    try {
        SecretKey encryptionKey = getV3Key();
        return encryptV3Format(data, encryptionKey);
    } catch (IllegalStateException e) {
        throw new IllegalStateException(e);}
}
final Cipher encryptionCipher = getEncryptionCipher(encryptionKey);
return encryptionCipher.doFinal(pad(data, 20));
} catch (GeneralSecurityException e) {
    throw new IllegalStateException(e);
}
}

static byte[] decryptV3Format(byte[] data) {
try {
    SecretKey decryptionKey = getV3Key();
    final Cipher decryptionCipher = getDecryptionCipher(decryptionKey);
    return unPad(decryptionCipher.doFinal(data));
} catch (GeneralSecurityException e) {
    throw new IllegalStateException(e);
}
}

private static SecretKey getV3Key() throws NoSuchAlgorithmException, InvalidKeySpecException {
    final byte[] salt = {
        (byte) 0xA9, (byte) 0xA2, (byte) 0xB5, (byte) 0xDE,
        (byte) 0x2A, (byte) 0x8A, (byte) 0x9A, (byte) 0xE6
    };
    final byte[] passBytes = "elasticsearch-license".getBytes(StandardCharsets.UTF_8);
    final byte[] digest = MessageDigest.getInstance("SHA-512").digest(passBytes);
    final char[] hashedPassphrase = Base64.getEncoder().encodeToChars(digest).toCharArray();
    PBEKeySpec keySpec = new PBEKeySpec(hashedPassphrase, salt, 1024, 128);
    byte[] shortKey = SecretKeyFactory.getInstance("PBEWithSHA1AndDESede").
generateSecret(keySpec).getEncoded();
    byte[] intermediaryKey = new byte[16];
    for (int i = 0, j = 0; i < 16; i++) {
        intermediaryKey[i] = shortKey[j];
        if (++j == shortKey.length)
            j = 0;
    }
    return new SecretKeySpec(intermediaryKey, "AES");
}

private static SecretKey deriveSecretKey(char[] passPhrase) {
try {
    PBEKeySpec keySpec = new PBEKeySpec(passPhrase, SALT, KDF_ITERATION_COUNT,
    ENCRYPTION_KEY_LENGTH);
    SecretKey secretKey = SecretKeyFactory.getInstance(KDF_ALGORITHM).
generateSecret(keySpec);
    return new SecretKeySpec(secretKey.getEncoded(), CIPHER_ALGORITHM);
} catch (NoSuchAlgorithmException | InvalidKeySpecException e) {
    throw new IllegalStateException(e);
}
private static Cipher getEncryptionCipher(SecretKey secretKey) {
    return getCipher(Cipher.ENCRYPT_MODE, secretKey);
}

private static Cipher getDecryptionCipher(SecretKey secretKey) {
    return getCipher(Cipher.DECRYPT_MODE, secretKey);
}

private static Cipher getCipher(int mode, SecretKey secretKey) {
    try {
        Cipher cipher = Cipher.getInstance(CIPHER_ALGORITHM);
        cipher.init(mode, secretKey, RANDOM);
        return cipher;
    } catch (NoSuchAlgorithmException | InvalidKeyException | NoSuchPaddingException e) {
        throw new IllegalStateException(e);
    }
}

private static byte[] pad(byte[] bytes, int length) {
    if (bytes.length >= length) {
        byte[] out = new byte[bytes.length + 1];
        System.arraycopy(bytes, 0, out, 0, bytes.length);
        out[bytes.length] = (byte) 1;
        return out;
    }

    byte[] out = new byte[length + 1];
    int i = 0;
    for (; i < bytes.length; i++)
        out[i] = bytes[i];

    int padded = length - i;

    // fill the rest with random bytes
    byte[] fill = new byte[padded - 1];
    RANDOM.nextBytes(fill);
    System.arraycopy(fill, 0, out, i, padded - 1);

    out[length] = (byte) (padded + 1);

    return out;
}

private static byte[] unPad(byte[] bytes) {
    int padded = (int) bytes[bytes.length - 1];

int targetLength = bytes.length - padded;
byte[] out = new byte[targetLength];
System.arraycopy(bytes, 0, out, 0, targetLength);
return out;
}
}
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*/
package org.elasticsearch.license;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.rest.BytesRestResponse;
import org.elasticsearch.rest.RestController;
import org.elasticsearch.rest.RestRequest;
import org.elasticsearch.rest.RestResponse;
import org.elasticsearch.rest.RestStatus;
import org.elasticsearch.rest.action.RestBuilderListener;
import org.elasticsearch.xpack.core.XPackClient;
import org.elasticsearch.xpack.core.rest.XPackRestHandler;
import java.io.IOException;
import static org.elasticsearch.rest.RestRequest.Method.GET;
public class RestGetTrialStatus extends XPackRestHandler {
RestGetTrialStatus(Settings settings, RestController controller) {
super(settings);
controller.registerHandler(GET, URI_BASE + "/license/trial_status", this);
}
@Override
protected RestChannelConsumer doPrepareRequest(RestRequest request, XPackClient client) throws IOException
{
return channel -> client.licensing().prepareGetStartTrial().execute(
new RestBuilderListener<GetTrialStatusResponse>(channel) {
@Override
public RestResponse buildResponse(GetTrialStatusResponse response, XContentBuilder builder) throws
Exception {
builder.startObject();
builder.field("eligible_to_start_trial", response.isEligibleToStartTrial());

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@Override
public String getName() {
    return "xpack_trial_status_action";
}
}

package org.elasticsearch.license;

import org.elasticsearch.ElasticsearchSecurityException;
import org.elasticsearch.Version;
import org.elasticsearch.cluster.node.DiscoveryNodes;
import org.elasticsearch.rest.RestStatus;
import java.util.stream.StreamSupport;

import org.elasticsearch.action.Action;
public class PostStartTrialAction extends Action<PostStartTrialResponse> {

    public static final PostStartTrialAction INSTANCE = new PostStartTrialAction();
    public static final String NAME = "cluster:admin/xpack/license/start_trial";

    private PostStartTrialAction() {
        super(NAME);
    }

    @Override
    public PostStartTrialResponse newResponse() {
        return new PostStartTrialResponse();
    }
}

package org.elasticsearch.license;

import org.elasticsearch.license.ElasticsearchSecurityException;
import org.elasticsearch.license.Version;
import org.elasticsearch.license.cluster.node.DiscoveryNodes;
import org.elasticsearch.license.rest.RestStatus;
import java.util.stream.StreamSupport;

import java.util.stream.StreamSupport;
public class LicenseUtils {

    public static final String EXPIRED_FEATURE_METADATA = "es.license.expired.feature";

    /**
     * Exception to be thrown when a feature action requires a valid license, but license
     * has expired
     *<code>feature</code> accessible through [{@link #EXPIRED_FEATURE_METADATA}] in the
     * exception's rest header
     */
    public static ElasticsearchSecurityException newComplianceException(String feature) {
        ElasticsearchSecurityException e = new ElasticsearchSecurityException("current license is non-compliant for
[]{}");
        e.addMetadata(EXPIRED_FEATURE_METADATA, feature);
        return e;
    }

    /**
     * Checks if a given [@link ElasticsearchSecurityException] refers to a feature that
     * requires a valid license, but the license has expired.
     */
    public static boolean isLicenseExpiredException(ElasticsearchSecurityException exception) {
        return (exception != null) && (exception.getMetadata(EXPIRED_FEATURE_METADATA) != null);
    }

    public static boolean licenseNeedsExtended(License license) {
        return "basic".equals(license.type()) && license.expiryDate() !=
LicenseService.BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS;
    }

    /**
     * Checks if the signature of a self generated license with older version needs to be
     * recreated with the new key
     */
    public static boolean signatureNeedsUpdate(License license, DiscoveryNodes currentNodes) {
        assert License.VERSION_CRYPTO_ALGORITHMS == License.VERSION_CURRENT : "update this method
when adding a new version";

        return ("basic".equals(license.type()) || "trial".equals(license.type())) &&
        // only upgrade signature when all nodes are ready to deserialize the new signature
        license.version() < License.VERSION_CRYPTO_ALGORITHMS &&
        compatibleLicenseVersion(currentNodes) == License.VERSION_CRYPTO_ALGORITHMS
        );
    }

    public static int compatibleLicenseVersion(DiscoveryNodes currentNodes) {
        return "basic".equals(license.type()) || "trial".equals(license.type()) &&
        // only upgrade signature when all nodes are ready to deserialize the new signature
        license.version() < License.VERSION_CRYPTO_ALGORITHMS &&
        compatibleLicenseVersion(currentNodes) == License.VERSION_CRYPTO_ALGORITHMS
        );
    }
assert License.VERSION_CRYPTO_ALGORITHMS == License.VERSION_CURRENT : "update this method when adding a new version"

if (StreamSupport.stream(currentNodes.stream().spliterator(), false)
       .allMatch(node -> node.getVersion().onOrAfter(Version.V_6_4_0))) {
    // License.VERSION_CRYPTO_ALGORITHMS was introduced in 6.4.0
    return License.VERSION_CRYPTO_ALGORITHMS;
} else {
    return License.VERSION_START_DATE;
}
*/

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* /
package org.elasticsearch.license;

import org.elasticsearch.action.ActionRequestValidationException;
import org.elasticsearch.action.support.master.MasterNodeReadRequest;
import org.elasticsearch.common.io.stream.StreamInput;
import java.io.IOException;

public class GetTrialStatusRequest extends MasterNodeReadRequest<GetTrialStatusRequest> {

    public GetTrialStatusRequest() {
    }

    public GetTrialStatusRequest(StreamInput in) throws IOException {
        super(in);
    }

    @Override
    public ActionRequestValidationException validate() {
        return null;
    }

    }
*/

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* /
package org.elasticsearch.license;

import org.elasticsearch.action.Action;
public class DeleteLicenseAction extends Action<DeleteLicenseResponse> {

    public static final DeleteLicenseAction INSTANCE = new DeleteLicenseAction();
    public static final String NAME = "cluster:admin/xpack/license/delete";

    private DeleteLicenseAction() {
        super(NAME);
    }

    @Override
    public DeleteLicenseResponse newResponse() {
        return new DeleteLicenseResponse();
    }
}

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 */

import org.elasticsearch.ElasticsearchException;
import org.elasticsearch.action.ActionListener;
import org.elasticsearch.action.support.ActionFilters;
import org.elasticsearch.action.support.master.TransportMasterNodeAction;
import org.elasticsearch.cluster.service.ClusterService;
import org.elasticsearch.cluster.ClusterState;
import org.elasticsearch.cluster.block.ClusterBlockException;
import org.elasticsearch.cluster.block.ClusterBlockLevel;
import org.elasticsearch.cluster.metadata.IndexNameExpressionResolver;
import org.elasticsearch.common.inject.Inject;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.threadpool.ThreadPool;
import org.elasticsearch.transport.TransportService;

public class TransportPutLicenseAction extends TransportMasterNodeAction<PutLicenseRequest,
    PutLicenseResponse> {

    private final LicenseService licenseService;

    @Inject
    public TransportPutLicenseAction(Settings settings, TransportService transportService, ClusterService
        clusterService,
        LicenseService licenseService, ThreadPool threadPool, ActionFilters actionFilters,
        IndexNameExpressionResolver indexNameExpressionResolver) {
        super(settings, PutLicenseAction.NAME, transportService, clusterService, threadPool, actionFilters,
            indexNameExpressionResolver,
            PutLicenseRequest::new);
this.licenseService = licenseService;
}

@override
protected String executor() {
    return ThreadPool.Names.MANAGEMENT;
}

@override
protected PutLicenseResponse newResponse() {
    return new PutLicenseResponse();
}

@override
protected ClusterBlockException checkBlock(PutLicenseRequest request, ClusterState state) {
    return state.blocks().globalBlockedException(ClusterBlockLevel.METADATA_WRITE);
}

@override
protected void masterOperation(final PutLicenseRequest request, ClusterState state, final ActionListener<PutLicenseResponse> listener) throws ElasticsearchException {
    licenseService.registerLicense(request, listener);
}

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 */
package org.elasticsearch.license;

import org.elasticsearch.action.ActionRequestBuilder;
import org.elasticsearch.client.ElasticsearchClient;

class GetTrialStatusRequestBuilder extends ActionRequestBuilder<GetTrialStatusRequest, GetTrialStatusResponse> {
    GetTrialStatusRequestBuilder(ElasticsearchClient client, GetTrialStatusAction action) {
        super(client, action, new GetTrialStatusRequest());
    }
}

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 */
package org.elasticsearch.license;

import org.elasticsearch.common.Strings;
import org.elasticsearch.common.logging.LoggerMessageFormat;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.license.License.OperationMode;
import org.elasticsearch.xpack.core.XPackField;
import org.elasticsearch.xpack.core.XPackSettings;
import org.elasticsearch.xpack.core.monitoring.MonitoringField;

import java.util.Collections;
import java.util.LinkedHashMap;
import java.util.List;
import java.util.Map;
import java.util.Objects;
import java.util.concurrent.CopyOnWriteArrayList;
import java.util.function.BiFunction;

/**
 * A holder for the current state of the license for all xpack features.
 */
public class XPackLicenseState {

    /** Messages for each feature which are printed when the license expires. */
    static final Map<String, String[]> EXPIRATION_MESSAGES;
    static {
        Map<String, String[]> messages = new LinkedHashMap<>();
        messages.put(XPackField.SECURITY, new String[] {
            "Cluster health, cluster stats and indices stats operations are blocked",
            "All data operations (read and write) continue to work"
        });
        messages.put(XPackField.WATCHER, new String[] {
            "PUT / GET watch APIs are disabled, DELETE watch API continues to work",
            "Watches execute and write to the history",
            "The actions of the watches don’t execute"
        });
        messages.put(XPackField.MONITORING, new String[] {
            "The agent will stop collecting cluster and indices metrics",
            "The agent will stop automatically cleaning indices older than [xpack.monitoring.history.duration]"
        });
        messages.put(XPackField.GRAPH, new String[] {
            "Graph explore APIs are disabled"
        });
        messages.put(XPackField.MACHINE_LEARNING, new String[] {
            "Machine learning APIs are disabled"
        });
        messages.put(XPackField.LOGSTASH, new String[] {
            "Logstash will continue to poll centrally-managed pipelines"
        });
    }
}
messages.put(XPackField.DEPRECATION, new String[] {
    "Deprecation APIs are disabled"
});
messages.put(XPackField.UPGRADE, new String[] {
    "Upgrade API is disabled"
});
messages.put(XPackField.SQL, new String[] {
    "SQL support is disabled"
});
messages.put(XPackField.ROLLUP, new String[] {
    "Creating and Starting rollup jobs will no longer be allowed.",
    "Stopping/Deleting existing jobs, RollupCaps API and RollupSearch continue to function."
});
EXPIRATION_MESSAGES = Collections.unmodifiableMap(messages);

/**
 * Messages for each feature which are printed when the license type changes.
 * The value is a function taking the old and new license type, and returns the messages for that feature.
 */
static final Map<String, BiFunction<OperationMode, OperationMode, String[]>> ACKNOWLEDGMENT_MESSAGES;
static {
    Map<String, BiFunction<OperationMode, OperationMode, String[]>> messages = new LinkedHashMap<>();
    messages.put(XPackField.SECURITY, XPackLicenseState::securityAcknowledgementMessages);
    messages.put(XPackField.WATCHER, XPackLicenseState::watcherAcknowledgementMessages);
    messages.put(XPackField.MONITORING, XPackLicenseState::monitoringAcknowledgementMessages);
    messages.put(XPackField.GRAPH, XPackLicenseState::graphAcknowledgementMessages);
    messages.put(XPackField.MACHINE_LEARNING, XPackLicenseState::machineLearningAcknowledgementMessages);
    messages.put(XPackField.LOGSTASH, XPackLicenseState::logstashAcknowledgementMessages);
    messages.put(XPackField.SQL,XPackLicenseState::sqlAcknowledgementMessages);
    ACKNOWLEDGMENT_MESSAGES = Collections.unmodifiableMap(messages);
}

private static String[] securityAcknowledgementMessages(OperationMode currentMode, OperationMode newMode) {
    switch (newMode) {
    case BASIC:
        switch (currentMode) {
            case TRIAL:
            case STANDARD:
            case GOLD:
            case PLATINUM:
                return new String[] {
                    "The following X-Pack security functionality will be disabled: authentication, authorization, " +
                    "ip filtering, and auditing. Please restart your node after applying the license."
                };
            default:
                return new String[] {
                    "The following X-Pack security functionality will be disabled: authentication, authorization, " +
                    "ip filtering, and auditing. Please restart your node after applying the license."
                };
        }
    default:
        return new String[] {
            "The following X-Pack security functionality will be disabled: authentication, authorization, " +
            "ip filtering, and auditing. Please restart your node after applying the license."
        };
    }
"Field and document level access control will be disabled."
"Custom realms will be ignored."

case GOLD:
switch (currentMode) {
    case BASIC:
    case STANDARD:
// ^ though technically it was already disabled, it's not bad to remind them
    case TRIAL:
    case PLATINUM:
        return new String[] {
            "Field and document level access control will be disabled.",
            "Custom realms will be ignored."
        };
    }

private static String[] watcherAcknowledgementMessages(OperationMode currentMode, OperationMode newMode) {
    switch (newMode) {
        case BASIC:
            switch (currentMode) {
                case TRIAL:
                case STANDARD:
                case GOLD:
                case PLATINUM:
                    return new String[] { "Watcher will be disabled" };
            }
    }
    break;
private static String[] monitoringAcknowledgementMessages(OperationMode currentMode, OperationMode newMode) {
    switch (newMode) {
        case BASIC:
            switch (currentMode) {
                case TRIAL:
                case STANDARD:
                case GOLD:
                case PLATINUM:
                    return new String[] {
                        LoggerMessageFormat.format(
                            "Multi-cluster support is disabled for clusters with [{}] license. If you are\n" +
                            "running multiple clusters, users won't be able to access the clusters with\n" +
                            "[{}] licenses from within a single X-Pack Kibana instance. You will have to deploy\n" +
                            "separate and dedicated X-pack Kibana instance for each [{} cluster you wish to monitor.",
                            newMode, newMode, newMode),
                    LoggerMessageFormat.format(
                        "Automatic index cleanup is locked to {} days for clusters with [{} license.",
                        MonitoringField.HISTORY_DURATION.getDefault(Settings.EMPTY).days(), newMode)
                    );
                }
                break;
            }
            return Strings.EMPTY_ARRAY;
        }
    private static String[] graphAcknowledgementMessages(OperationMode currentMode, OperationMode newMode) {
        switch (newMode) {
            case BASIC:
            case STANDARD:
            case GOLD:
                switch (currentMode) {
                    case TRIAL:
                    case PLATINUM:
                        return new String[] { "Graph will be disabled" };
                    }
                break;
        }
        return Strings.EMPTY_ARRAY;
    }
    private static String[] machineLearningAcknowledgementMessages(OperationMode currentMode, OperationMode newMode) {
switch (newMode) {
    case BASIC: 
    case STANDARD: 
    case GOLD: 
        switch (currentMode) {
            case TRIAL: 
            case PLATINUM: 
                return new String[] { "Machine learning will be disabled" }; 
        }
        break;
    }
    return Strings.EMPTY_ARRAY;
}

private static String[] logstashAcknowledgementMessages(OperationMode currentMode, OperationMode newMode) {
    switch (newMode) {
        case BASIC: 
            switch (currentMode) {
                case TRIAL: 
                case STANDARD: 
                case GOLD: 
                case PLATINUM: 
                    return new String[] { "Logstash will no longer poll for centrally-managed pipelines" }; 
            }
            break;
    }
    return Strings.EMPTY_ARRAY;
}

private static String[] sqlAcknowledgementMessages(OperationMode currentMode, OperationMode newMode) {
    switch (newMode) {
        case BASIC: 
        case STANDARD: 
        case GOLD: 
            switch (currentMode) {
                case TRIAL: 
                case PLATINUM: 
                    return new String[] { "JDBC support will be disabled, but you can continue to use SQL CLI and REST endpoint" }; 
            }
            break;
    }
    return Strings.EMPTY_ARRAY;
}

/** A wrapper for the license mode and state, to allow atomically swapping. */
private static class Status {


/** The current "mode" of the license (ie license type). */
final OperationMode mode;

/** True if the license is active, or false if it is expired. */
final boolean active;

Status(OperationMode mode, boolean active) {
    this.mode = mode;
    this.active = active;
}

private volatile Status status = new Status(OperationMode.TRIAL, true);
private final List<Runnable> listeners = new CopyOnWriteArrayList<>();
private final boolean isSecurityEnabled;
private final boolean isSecurityExplicitlyEnabled;

public XPackLicenseState(Settings settings) {
    this.isSecurityEnabled = XPackSettings.SECURITY_ENABLED.get(settings);
    // 6.0+ requires TLS for production licenses, so if TLS is enabled and security is enabled
    // we can interpret this as an explicit enabling of security if the security enabled
    // setting is not explicitly set
    this.isSecurityExplicitlyEnabled = isSecurityEnabled &&
        (settings.hasValue(XPackSettings.SECURITY_ENABLED.getKey()) ||
        XPackSettings.TRANSPORT_SSL_ENABLED.get(settings));
}

/** Updates the current state of the license, which will change what features are available. */
void update(OperationMode mode, boolean active) {
    status = new Status(mode, active);
    listeners.forEach(Runnable::run);
}

/** Add a listener to be notified on license change */
public void addListener(Runnable runnable) {
    listeners.add(Objects.requireNonNull(runnable));
}

/** Remove a listener */
public void removeListener(Runnable runnable) {
    listeners.remove(runnable);
}

/** Return the current license type. */
public OperationMode getOperationMode() {
    return status.mode;
}
/** Return true if the license is currently within its time boundaries, false otherwise. */
public boolean isActive() {
    return status.active;
}

/**
 * @return true if authentication and authorization should be enabled. this does not indicate what realms are available
 * @see #allowedRealmType() for the enabled realms
 */
public boolean isAuthAllowed() {
    OperationMode mode = status.mode;
    return mode == OperationMode.STANDARD || mode == OperationMode.GOLD || mode == OperationMode.PLATINUM
         || mode == OperationMode.TRIAL;
}

/**
 * @return true if IP filtering should be enabled
 */
public boolean isIpFilteringAllowed() {
    OperationMode mode = status.mode;
    return mode == OperationMode.GOLD || mode == OperationMode.PLATINUM || mode == OperationMode.TRIAL;
}

/**
 * @return true if auditing should be enabled
 */
public boolean isAuditingAllowed() {
    OperationMode mode = status.mode;
    return mode == OperationMode.GOLD || mode == OperationMode.PLATINUM || mode == OperationMode.TRIAL;
}

/**
 * Indicates whether the stats and health API calls should be allowed. If a license is expired and past the grace period then we deny these calls.
 */
public boolean isStatsAndHealthAllowed() {
    return status.active;
}

/**
 * Determine if Document Level Security (DLS) and Field Level Security (FLS) should be enabled.
 */
* DLS and FLS are only disabled when the mode is not:
* \[ \text{@link OperationMode#PLATINUM} \]
* \[ \text{@link OperationMode#TRIAL} \]
* Note: This does not consider the *<em>state</em>* of the license so that Security does not suddenly leak information!

* @return [code true] to enable DLS and FLS. Otherwise [code false].

```java
public boolean isDocumentAndFieldLevelSecurityAllowed() {
    OperationMode mode = status.mode;
    return mode == OperationMode.TRIAL || mode == OperationMode.PLATINUM;
}
```

** Classes of realms that may be available based on the license type. */

```java
public enum AllowedRealmType {
    NONE,
    NATIVE,
    DEFAULT,
    ALL
}
```

** * @return the type of realms that are enabled based on the license [\text{@link OperationMode}] */

```java
public AllowedRealmType allowedRealmType() {
    switch (status.mode) {
        case PLATINUM:
        case TRIAL:
            return AllowedRealmType.ALL;
        case GOLD:
            return AllowedRealmType.DEFAULT;
        case STANDARD:
            return AllowedRealmType.NATIVE;
        default:
            return AllowedRealmType.NONE;
    }
}
```

** * @return whether custom role providers are allowed based on the license [\text{@link OperationMode}] */

```java
public boolean isCustomRoleProvidersAllowed() {
    final Status localStatus = status;
    return (localStatus.mode == OperationMode.PLATINUM || localStatus.mode == OperationMode.TRIAL )
        && localStatus.active;
```
/**
 * Determine if Watcher is available based on the current license.
 * Watcher is available if the license is active (hasn't expired) and of one of the following types:
 * <ul>
 * <li>{@link OperationMode#STANDARD}</li>
 * <li>{@link OperationMode#PLATINUM}</li>
 * <li>{@link OperationMode#GOLD}</li>
 * <li>{@link OperationMode#TRIAL}</li>
 * </ul>
 * @return true as long as the license is valid. Otherwise false.
 */
public boolean isWatcherAllowed() {
    // status is volatile, so a local variable is used for a consistent view
    Status localStatus = status;

    if (localStatus.active == false) {
        return false;
    }

    switch (localStatus.mode) {
        case TRIAL:
        case GOLD:
        case PLATINUM:
        case STANDARD:
            return true;
        default:
            return false;
    }
}

/**
 * Monitoring is always available as long as there is a valid license
 * @return true if the license is active
 */
public boolean isMonitoringAllowed() {
    return status.active;
}

/**
 * Monitoring Cluster Alerts requires the equivalent license to use Watcher.
 * @return false
 */
public boolean isWatcherAllowed()
    @see #isWatcherAllowed()
public boolean isMonitoringClusterAlertsAllowed() {
    return isWatcherAllowed();
}

/**
 * Determine if the current license allows the retention of indices to be modified.
 * <p>
 * Only users with a non-{@link OperationMode#BASIC} license can update the retention period.
 * <p>
 * Note: This does not consider the <em>state</em> of the license so that any change is remembered for when
 * they fix their license.
 * *
 * @return {@code true} if the user is allowed to modify the retention. Otherwise {@code false}.
 */
public boolean isUpdateRetentionAllowed() {
    final OperationMode mode = status.mode;
    return mode != OperationMode.BASIC && mode != OperationMode.MISSING;
}

/**
 * Determine if Graph Exploration should be enabled.
 * <p>
 * Exploration is only disabled when the license has expired or if the mode is not:
 * <p>
 * @return {@code true} as long as the license is valid. Otherwise {@code false}.
 */
public boolean isGraphAllowed() {
    // status is volatile
    Status localStatus = status;
    OperationMode operationMode = localStatus.mode;

    boolean licensed = operationMode == OperationMode.TRIAL || operationMode ==
    OperationMode.PLATINUM;

    return licensed && localStatus.active;
}

/**
 * Determine if Machine Learning should be enabled.
 * <p>
 * Machine Learning is only disabled when the license has expired or if the
 * mode is not:
 * <ul>

* @return [ @code true ] as long as the license is valid. Otherwise
*         { @code false }.
*/
public boolean isMachineLearningAllowed() {
    // status is volatile
    Status localStatus = status;
    OperationMode operationMode = localStatus.mode;

    boolean licensed = operationMode == OperationMode.TRIAL || operationMode ==
                        OperationMode.PLATINUM;

    return licensed && localStatus.active;
}

/**
 * Rollup is always available as long as there is a valid license
 * @return true if the license is active
 */
public boolean isRollupAllowed() {
    return status.active;
}

/**
 * Logstash is allowed as long as there is an active license of type TRIAL, STANDARD, GOLD or PLATINUM
 * @return [ @code true ] as long as there is a valid license
 */
public boolean isLogstashAllowed() {
    Status localStatus = status;

    if (localStatus.active == false) {
        return false;
    }

    switch (localStatus.mode) {
        case TRIAL:
        case GOLD:
        case PLATINUM:
        case STANDARD:
            return true;
        default:
            return false;
    }
}
/**
 * Deprecation APIs are always allowed as long as there is an active license
 * @return {@code true} as long as there is a valid license
 */
public boolean isDeprecationAllowed() {
    return status.active;
}

/**
 * Determine if Upgrade API should be enabled.
 * <p>
 * Upgrade API is not available in for all license types except {@link OperationMode#MISSING}
 * @return {@code true} as long as the license is valid. Otherwise
 *         {@code false}.
 */
public boolean isUpgradeAllowed() {
    // status is volatile
    Status localStatus = status;
    // Should work on all active licenses
    return localStatus.active;
}

/**
 * Determine if SQL support should be enabled.
 * <p>
 * SQL is available for all license types except {@link OperationMode#MISSING}
 */
public boolean isSqlAllowed() {
    return status.active;
}

/**
 * Determine if JDBC support should be enabled.
 * <p>
 * JDBC is available only in for {@link OperationMode#PLATINUM} and {@link OperationMode#TRIAL}
 * licences
 */
public boolean isJdbcAllowed() {
    // status is volatile
    Status localStatus = status;
    OperationMode operationMode = localStatus.mode;

    boolean licensed = operationMode == OperationMode.TRIAL || operationMode ==
    OperationMode.PLATINUM;

    return licensed && localStatus.active;
public boolean isTrialLicense() {
    return status.mode == OperationMode.TRIAL;
}

public boolean isSecurityAvailable() {
    OperationMode mode = status.mode;
    return mode == OperationMode.GOLD || mode == OperationMode.PLATINUM || mode ==
    OperationMode.STANDARD ||
    mode == OperationMode.TRIAL;
}

public boolean isSecurityEnabled() {
    final OperationMode mode = status.mode;
    return mode == OperationMode.TRIAL ? isSecurityExplicitlyEnabled : isSecurityEnabled;
}

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 * or more contributor license agreements. Licensed under the Elastic License;
 * you may not use this file except in compliance with the Elastic License.
 */

package org.elasticsearch.license;

import org.apache.logging.log4j.Logger;
import org.apache.logging.log4j.message.ParameterizedMessage;
import org.elasticsearch.Version;
import org.elasticsearch.action.ActionListener;
import org.elasticsearch.cluster.ClusterState;
import org.elasticsearch.cluster.ClusterStateUpdateTask;
import org.elasticsearch.cluster.metadata.MetaData;
import org.elasticsearch.common.Nullable;
import org.elasticsearch.xpack.core.XPackPlugin;
import java.time.Clock;
import java.util.Collections;
import java.util.Map;
import java.util.UUID;

public class StartTrialClusterTask extends ClusterStateUpdateTask {

    private static final String ACKNOWLEDGEMENT_HEADER = "This API initiates a free 30-day trial for all
    platinum features. " +
    "By starting this trial, you agree that it is subject to the terms and conditions at" +
    " https://www.elastic.co/legal/trial_license/. To begin your free trial, call /start_trial again and specify " +
    "the \"acknowledge=true\" parameter.";
private static final Map<String, String[]> ACK_MESSAGES = Collections.singletonMap("security", new String[] {"With a trial license, X-Pack security features are available, but are not enabled by default."});

private final Logger logger;
private final String clusterName;
private final PostStartTrialRequest request;
private final ActionListener<PostStartTrialResponse> listener;
private final Clock clock;

StartTrialClusterTask(Logger logger, String clusterName, Clock clock, PostStartTrialRequest request, ActionListener<PostStartTrialResponse> listener) {
   this.logger = logger;
   this.clusterName = clusterName;
   this.request = request;
   this.listener = listener;
   this.clock = clock;
}

@Override
public void clusterStateProcessed(String source, ClusterState oldState, ClusterState newState) {
   LicensesMetaData oldLicensesMetaData = oldState.metaData().custom(LicensesMetaData.TYPE);
   logger.debug("started self generated trial license: {}", oldLicensesMetaData);
   if (request.isAcknowledged() == false) {
      listener.onResponse(new PostStartTrialResponse(PostStartTrialResponse.Status.NEED_ACKNOWLEDGEMENT, ACK_MESSAGES, ACKNOWLEDGEMENT_HEADER));
   } else if (oldLicensesMetaData == null || oldLicensesMetaData.isEligibleForTrial()) {
      listener.onResponse(new PostStartTrialResponse(PostStartTrialResponse.Status.UPGRADED_TO_TRIAL));
   } else {
      listener.onResponse(new PostStartTrialResponse(PostStartTrialResponse.Status.TRIAL_ALREADY_ACTIVATED));
   }
}

@Override
public ClusterState execute(ClusterState currentState) throws Exception {
   XPackPlugin.checkReadyForXPackCustomMetadata(currentState);
   LicensesMetaData currentLicensesMetaData = currentState.metaData().custom(LicensesMetaData.TYPE);
   if (request.isAcknowledged() == false) {
      return currentState;
   } else if (currentLicensesMetaData == null || currentLicensesMetaData.isEligibleForTrial()) {
      long issueDate = clock.millis();
      MetaData.Builder mdBuilder = MetaData.builder(currentState.metaData());
      long expiryDate = issueDate + LicenseService.NON_BASIC_SELF_GENERATED_LICENSE_DURATION.getMillis();
   }
}

private final Logger logger;
private final String clusterName;
private final PostStartTrialRequest request;
private final ActionListener<PostStartTrialResponse> listener;
private final Clock clock;

StartTrialClusterTask(Logger logger, String clusterName, Clock clock, PostStartTrialRequest request, ActionListener<PostStartTrialResponse> listener) {
   this.logger = logger;
   this.clusterName = clusterName;
   this.request = request;
   this.listener = listener;
   this.clock = clock;
}

@Override
public void clusterStateProcessed(String source, ClusterState oldState, ClusterState newState) {
   LicensesMetaData oldLicensesMetaData = oldState.metaData().custom(LicensesMetaData.TYPE);
   logger.debug("started self generated trial license: {}", oldLicensesMetaData);
   if (request.isAcknowledged() == false) {
      listener.onResponse(new PostStartTrialResponse(PostStartTrialResponse.Status.NEED_ACKNOWLEDGEMENT, ACK_MESSAGES, ACKNOWLEDGEMENT_HEADER));
   } else if (oldLicensesMetaData == null || oldLicensesMetaData.isEligibleForTrial()) {
      listener.onResponse(new PostStartTrialResponse(PostStartTrialResponse.Status.UPGRADED_TO_TRIAL));
   } else {
      listener.onResponse(new PostStartTrialResponse(PostStartTrialResponse.Status.TRIAL_ALREADY_ACTIVATED));
   }
}

@Override
public ClusterState execute(ClusterState currentState) throws Exception {
   XPackPlugin.checkReadyForXPackCustomMetadata(currentState);
   LicensesMetaData currentLicensesMetaData = currentState.metaData().custom(LicensesMetaData.TYPE);
   if (request.isAcknowledged() == false) {
      return currentState;
   } else if (currentLicensesMetaData == null || currentLicensesMetaData.isEligibleForTrial()) {
      long issueDate = clock.millis();
      MetaData.Builder mdBuilder = MetaData.builder(currentState.metaData());
      long expiryDate = issueDate + LicenseService.NON_BASIC_SELF_GENERATED_LICENSE_DURATION.getMillis();
   }
}

private final Logger logger;
private final String clusterName;
private final PostStartTrialRequest request;
private final ActionListener<PostStartTrialResponse> listener;
private final Clock clock;

StartTrialClusterTask(Logger logger, String clusterName, Clock clock, PostStartTrialRequest request, ActionListener<PostStartTrialResponse> listener) {
   this.logger = logger;
   this.clusterName = clusterName;
   this.request = request;
   this.listener = listener;
   this.clock = clock;
}

@Override
public void clusterStateProcessed(String source, ClusterState oldState, ClusterState newState) {
   LicensesMetaData oldLicensesMetaData = oldState.metaData().custom(LicensesMetaData.TYPE);
   logger.debug("started self generated trial license: {}", oldLicensesMetaData);
   if (request.isAcknowledged() == false) {
      listener.onResponse(new PostStartTrialResponse(PostStartTrialResponse.Status.NEED_ACKNOWLEDGEMENT, ACK_MESSAGES, ACKNOWLEDGEMENT_HEADER));
   } else if (oldLicensesMetaData == null || oldLicensesMetaData.isEligibleForTrial()) {
      listener.onResponse(new PostStartTrialResponse(PostStartTrialResponse.Status.UPGRADED_TO_TRIAL));
   } else {
      listener.onResponse(new PostStartTrialResponse(PostStartTrialResponse.Status.TRIAL_ALREADY_ACTIVATED));
   }
}

@Override
public ClusterState execute(ClusterState currentState) throws Exception {
   XPackPlugin.checkReadyForXPackCustomMetadata(currentState);
   LicensesMetaData currentLicensesMetaData = currentState.metaData().custom(LicensesMetaData.TYPE);
   if (request.isAcknowledged() == false) {
      return currentState;
   } else if (currentLicensesMetaData == null || currentLicensesMetaData.isEligibleForTrial()) {
      long issueDate = clock.millis();
      MetaData.Builder mdBuilder = MetaData.builder(currentState.metaData());
      long expiryDate = issueDate + LicenseService.NON_BASIC_SELF_GENERATED_LICENSE_DURATION.getMillis();
   }
}
License.Builder specBuilder = License.builder()
  .uid(UUID.randomUUID().toString())
  .issuedTo(clusterName)
  .maxNodes(LicenseService.SELF_GENERATED_LICENSE_MAX_NODES)
  .issueDate(issueDate)
  .type(request.getType())
  .expiryDate(expiryDate);
License selfGeneratedLicense = SelfGeneratedLicense.create(specBuilder, currentState.nodes());
LicensesMetaData newLicensesMetaData = new LicensesMetaData(selfGeneratedLicense,
Version.CURRENT);
  mdBuilder.putCustom(LicensesMetaData.TYPE, newLicensesMetaData);
  return ClusterState.builder(currentState).metaData(mdBuilder).build();
  }
  } else {
      return currentState;
  }
  }

@Override
public void onFailure(String source, @Nullable Exception e) {
    logger.error(new ParameterizedMessage("unexpected failure during [{ ]}", source), e);
    listener.onFailure(e);
}

import org.elasticsearch.action.Action;
public class PutLicenseAction extends Action<PutLicenseResponse> {

  public static final PutLicenseAction INSTANCE = new PutLicenseAction();
  public static final String NAME = "cluster:admin/xpack/license/put";

  private PutLicenseAction() {
      super(NAME);
  }
  
  @Override
  public PutLicenseResponse newResponse() {
      return new PutLicenseResponse();
  }

  /*
   * Copyright Elasticsearch B.V. and/or licensed to Elasticsearch B.V. under one
   * or more contributor license agreements. Licensed under the Elastic License;
   * you may not use this file except in compliance with the Elastic License.
   */
import org.elasticsearch.action.Action;
public class PutLicenseAction extends Action<PutLicenseResponse> {

  public static final PutLicenseAction INSTANCE = new PutLicenseAction();
  public static final String NAME = "cluster:admin/xpack/license/put";

  private PutLicenseAction() {
      super(NAME);
  }
  
  @Override
  public PutLicenseResponse newResponse() {
      return new PutLicenseResponse();
  }

  /*
   * Copyright Elasticsearch B.V. and/or licensed to Elasticsearch B.V. under one
   */
package org.elasticsearch.license;

import org.elasticsearch.action.Action;

public class GetLicenseAction extends Action<GetLicenseResponse> {

    public static final GetLicenseAction INSTANCE = new GetLicenseAction();
    public static final String NAME = "cluster:monitor/xpack/license/get";

    private GetLicenseAction() {
        super(NAME);
    }

    @Override
    public GetLicenseResponse newResponse() {
        return new GetLicenseResponse();
    }
}

package org.elasticsearch.license;

import org.elasticsearch.xpack.core.XPackPlugin;
import java.time.Clock;
import java.util.Collections;
import java.util.Map;
import java.util.UUID;
import java.util.concurrent.atomic.AtomicReference;

public class StartBasicClusterTask extends ClusterStateUpdateTask {

    private static final String ACKNOWLEDGEMENT_HEADER = "This license update requires acknowledgement. To acknowledge the license, "+


"please read the following messages and call /start_basic again, this time with the \"acknowledge=true\" parameter:"

private final Logger logger;
private final String clusterName;
private final PostStartBasicRequest request;
private final ActionListener<PostStartBasicResponse> listener;
private final Clock clock;
private AtomicReference<Map<String, String[]>> ackMessages = new 
AtomicReference<>(Collections.emptyMap());

StartBasicClusterTask(Logger logger, String clusterName, Clock clock, PostStartBasicRequest request,
ActionListener<PostStartBasicResponse> listener) {
    this.logger = logger;
    this.clusterName = clusterName;
    this.request = request;
    this.listener = listener;
    this.clock = clock;
}

@Override
public void clusterStateProcessed(String source, ClusterState oldState, ClusterState newState) {
    LicensesMetaData oldLicensesMetaData = oldState.metaData().custom(LicensesMetaData.TYPE);
    logger.debug("license prior to starting basic license: ", oldLicensesMetaData);
    License oldLicense = LicensesMetaData.extractLicense(oldLicensesMetaData);
    Map<String, String[]> acknowledgeMessages = ackMessages.get();
    if (acknowledgeMessages.isEmpty() == false) {
        listener.onResponse(new 
PostStartBasicResponse(PostStartBasicResponse.Status.NEED_ACKNOWLEDGEMENT, acknowledgeMessages,
ACKNOWLEDGEMENT_HEADER));
} else if (oldLicense != null && oldLicense.type().equals("basic")) { 
        listener.onResponse(new 
PostStartBasicResponse(PostStartBasicResponse.Status.ALREADY_USING_BASIC));
} else {
    listener.onResponse(new PostStartBasicResponse(PostStartBasicResponse.Status.GENERATED_BASIC));
}
}

@Override
public ClusterState execute(ClusterState currentState) throws Exception {
    XPackPlugin.checkReadyForXPackCustomMetadata(currentState);
    LicensesMetaData licensesMetaData = currentState.metaData().custom(LicensesMetaData.TYPE);
    License currentLicense = LicensesMetaData.extractLicense(licensesMetaData);
    if (currentLicense == null || currentLicense.type().equals("basic") == false) {
        long issueDate = clock.millis();
        MetaData.Builder mdBuilder = MetaData.builder(currentState.metaData());
        License.Builder specBuilder = License.builder()
            .uid(UUID.randomUUID().toString())
            .issueDate(issueDate)
            .type("basic")
            ....
License selfGeneratedLicense = SelfGeneratedLicense.create(specBuilder, currentState.nodes());
if (request.isAcknowledged() == false && currentLicense != null) {
    Map<String, String[]> ackMessages = LicenseService.getAckMessages(selfGeneratedLicense, currentLicense);
    if (ackMessages.isEmpty() == false) {
        this.ackMessages.set(ackMessages);
        return currentState;
    }
}
Version trialVersion = null;
if (licensesMetaData != null) {
    trialVersion = licensesMetaData.getMostRecentTrialVersion();
    LicensesMetaData newLicensesMetaData = new LicensesMetaData(selfGeneratedLicense, trialVersion);
    mdBuilder.putCustom(LicensesMetaData.TYPE, newLicensesMetaData);
    return ClusterState.builder(currentState).metaData(mdBuilder).build();
} else {
    return currentState;
}

@Override
public void onFailure(String source, @Nullable Exception e) {
    logger.error(new ParameterizedMessage("unexpected failure during 
    ", source), e);
    listener.onFailure(e);
}

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*/
package org.elasticsearch.license;

import org.elasticsearch.action.ActionListener;
import org.elasticsearch.action.support.ActionFilters;
import org.elasticsearch.action.support.master.TransportMasterNodeAction;
import org.elasticsearch.cluster.ClusterState;
import org.elasticsearch.cluster.block.ClusterBlockException;
import org.elasticsearch.cluster.block.ClusterBlockLevel;
import org.elasticsearch.cluster.metadata.IndexNameExpressionResolver;
import org.elasticsearch.cluster.service.ClusterService;
import org.elasticsearch.common.inject.Inject;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.threadpool.ThreadPool;
import org.elasticsearch.transport.TransportService;

public class TransportPostStartBasicAction extends TransportMasterNodeAction<PostStartBasicRequest, PostStartBasicResponse> {

    private final LicenseService licenseService;

    @Inject
    public TransportPostStartBasicAction(Settings settings, TransportService transportService, ClusterService clusterService,
                                           LicenseService licenseService, ThreadPool threadPool, ActionFilters actionFilters,
                                           IndexNameExpressionResolver indexNameExpressionResolver) {
        super(settings, PostStartBasicAction.NAME, transportService, clusterService, threadPool, actionFilters,
              indexNameExpressionResolver, PostStartBasicRequest::new);
        this.licenseService = licenseService;
    }

    @Override
    protected String executor() {
        return ThreadPool.Names.SAME;
    }

    @Override
    protected PostStartBasicResponse newResponse() {
        return new PostStartBasicResponse();
    }

    @Override
    protected void masterOperation(PostStartBasicRequest request, ClusterState state,
                                    ActionListener<PostStartBasicResponse> listener) throws Exception {
        licenseService.startBasicLicense(request, listener);
    }

    @Override
    protected ClusterBlockException checkBlock(PostStartBasicRequest request, ClusterState state) {
        return state.blocks().globalBlockedException(ClusterBlockLevel.METADATA_WRITE);
    }

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     */

    package org.elasticsearch.license;

    import org.elasticsearch.action.ActionRequestBuilder;
import org.elasticsearch.client.ElasticsearchClient;
class PostStartTrialRequestBuilder extends ActionRequestBuilder<PostStartTrialRequest, PostStartTrialResponse>
{
PostStartTrialRequestBuilder(ElasticsearchClient client, PostStartTrialAction action) {
super(client, action, new PostStartTrialRequest());
}
public PostStartTrialRequestBuilder setAcknowledge(boolean acknowledge) {
request.acknowledge(acknowledge);
return this;
}
}
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*/
package org.elasticsearch.license;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.rest.RestController;
import org.elasticsearch.rest.RestRequest;
import org.elasticsearch.rest.action.RestToXContentListener;
import org.elasticsearch.xpack.core.XPackClient;
import org.elasticsearch.xpack.core.rest.XPackRestHandler;
import java.io.IOException;
import static org.elasticsearch.rest.RestRequest.Method.DELETE;
public class RestDeleteLicenseAction extends XPackRestHandler {
public RestDeleteLicenseAction(Settings settings, RestController controller) {
super(settings);
controller.registerHandler(DELETE, URI_BASE + "/license", this);
}
@Override
public String getName() {
return "xpack_delete_license_action";
}
@Override
public RestChannelConsumer doPrepareRequest(final RestRequest request, final XPackClient client) throws
IOException {
DeleteLicenseRequest deleteLicenseRequest = new DeleteLicenseRequest();
deleteLicenseRequest.timeout(request.paramAsTime("timeout", deleteLicenseRequest.timeout()));

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deleteLicenseRequest.masterNodeTimeout(request.paramAsTime("master_timeout",
deleteLicenseRequest.masterNodeTimeout()));

return channel -> client.es().admin().cluster().execute(DeleteLicenseAction.INSTANCE, deleteLicenseRequest, new RestToXContentListener<>(channel));

*/

package org.elasticsearch.license;

import org.apache.lucene.util.BytesRef;
import org.apache.lucene.util.BytesRefIterator;
import org.elasticsearch.common.bytes.BytesReference;
import org.elasticsearch.common.xcontent.ToXContent;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.common.xcontent.XContentFactory;
import org.elasticsearch.common.xcontent.XContentType;
import org.elasticsearch.core.internal.io.Streams;
import java.io.ByteArrayOutputStream;
import java.io.IOException;
import java.io.InputStream;
import java.nio.ByteBuffer;
import java.security.InvalidKeyException;
import java.security.NoSuchAlgorithmException;
import java.security.Signature;
import java.security.SignatureException;
import java.util.Arrays;
import java.util.Base64;
import java.util.Collections;

/**
 * Responsible for verifying signed licenses
 */
public class LicenseVerifier {

/**
 * verifies the license content with the signature using the packaged
 * public key
 * @param license to verify
 * @return true if valid, false otherwise
 */
public static boolean verifyLicense(final License license, byte[] publicKeyData) {
  byte[] signedContent = null;

byte[] publicKeyFingerprint = null;
try {
    byte[] signatureBytes = Base64.getDecoder().decode(license.signature());
    ByteBuffer byteBuffer = ByteBuffer.wrap(signatureBytes);
    int version = byteBuffer.getInt();
    int magicLen = byteBuffer.getInt();
    byte[] magic = new byte[magicLen];
    byteBuffer.get(magic);
    int hashLen = byteBuffer.getInt();
    publicKeyFingerprint = new byte[hashLen];
    byteBuffer.get(publicKeyFingerprint);
    int signedContentLen = byteBuffer.getInt();
    signedContent = new byte[signedContentLen];
    byteBuffer.get(signedContent);
    XContentBuilder contentBuilder = XContentFactory.contentBuilder(XContentType.JSON);
    license.toXContent(contentBuilder, new ToXContent.MapParams(Collections.singletonMap(License.LICENSE_SPEC_VIEW_MODE, "true")));
    Signature rsa = Signature.getInstance("SHA512withRSA");
    rsa.initVerify(CryptUtils.readPublicKey(publicKeyData));
    BytesRefIterator iterator = BytesReference.bytes(contentBuilder).iterator();
    BytesRef ref;
    while((ref = iterator.next()) != null) {
        rsa.update(ref.bytes, ref.offset, ref.length);
    }
    return rsa.verify(signedContent);
} catch (IOException | NoSuchAlgorithmException | SignatureException | InvalidKeyException e) {
    throw new IllegalStateException(e);
} finally {
    if (signedContent != null) {
        Arrays.fill(signedContent, (byte) 0);
    }
}

public static boolean verifyLicense(final License license) {
    final byte[] publicKeyBytes;
    try (InputStream is = LicenseVerifier.class.getResourceAsStream("/public.key")) {
        ByteArrayOutputStream out = new ByteArrayOutputStream();
        Streams.copy(is, out);
        publicKeyBytes = out.toByteArray();
    } catch (IOException ex) {
        throw new IllegalStateException(ex);
    }
    return verifyLicense(license, publicKeyBytes);
}

/*
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import org.elasticsearch.cluster.node.DiscoveryNodes;
import org.elasticsearch.common.bytes.BytesReference;
import org.elasticsearch.common.xcontent.LoggingDeprecationHandler;
import org.elasticsearch.common.xcontent.NamedXContentRegistry;
import org.elasticsearch.common.xcontent.ToXContent;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.common.xcontent.XContentFactory;
import org.elasticsearch.common.xcontent.XContentParser;
import org.elasticsearch.common.xcontent.XContentType;
import java.io.IOException;
import java.nio.ByteBuffer;
import java.util.Base64;
import java.util.Collections;
import static org.elasticsearch.license.CryptUtils.encryptV3Format;
import static org.elasticsearch.license.CryptUtils.encrypt;
import static org.elasticsearch.license.CryptUtils.decryptV3Format;
import static org.elasticsearch.license.CryptUtils.decrypt;

class SelfGeneratedLicense {

    public static License create(License.Builder specBuilder, DiscoveryNodes currentNodes) {
        return create(specBuilder, LicenseUtils.compatibleLicenseVersion(currentNodes));
    }

    public static License create(License.Builder specBuilder, int version) {
        License spec = specBuilder
            .issuer("elasticsearch")
            .version(version)
            .build();
        final String signature;
        try {
            XContentBuilder contentBuilder = XContentFactory.contentBuilder(XContentType.JSON);
            spec.toXContent(contentBuilder, new
                ToXContent.MapParams(Collections.singletonMap(License.LICENSE_SPEC_VIEW_MODE, "true")));
            byte[] encrypt;
            if (version < License.VERSION_CRYPTO_ALGORITHMS) {
                encrypt = encryptV3Format(BytesReference.toBytes(BytesReference.bytes(contentBuilder)));
            } else {
                encrypt = encrypt(BytesReference.toBytes(BytesReference.bytes(contentBuilder)));
            }
            byte[] bytes = new byte[4 + 4 + encrypt.length];
ByteBuffer byteBuffer = ByteBuffer.wrap(bytes);
// Set -version in signature
byteBuffer.putInt(-version)
    .putInt(encrypt.length)
    .put(encrypt);
signature = Base64.getEncoder().encodeToString(bytes);
} catch (IOException e) {
    throw new IllegalStateException(e);
}
return License.builder().fromLicenseSpec(spec, signature).build();

public static boolean verify(final License license) {
    try {
        byte[] signatureBytes = Base64.getDecoder().decode(license.signature());
        ByteBuffer byteBuffer = ByteBuffer.wrap(signatureBytes);
        int version = byteBuffer.getInt();
        int contentLen = byteBuffer.getInt();
        byte[] content = new byte[contentLen];
        byteBuffer.get(content);
        final License expectedLicense;
        // Version in signature is -version, so check for -(-version) < 4
        byte[] decryptedContent = (-version < License.VERSION_CRYPTO_ALGORITHMS) ? decryptV3Format(content) : decrypt(content);
        // EMPTY is safe here because we don't call namedObject
        try (XContentParser parser = XContentFactory.xContent(XContentType.JSON)
             .createParser(NamedXContentRegistry.EMPTY, LoggingDeprecationHandler.INSTANCE,
             decryptedContent)) {
            parser.nextToken();
            expectedLicense = License.builder().fromLicenseSpec(License.fromXContent(parser),
                    license.signature()).version(-version).build();
        }
        return license.equals(expectedLicense);
    } catch (IOException e) {
        throw new IllegalStateException(e);
    }
}

public static boolean validSelfGeneratedType(String type) {
    return "basic".equals(type) || "trial".equals(type);
}

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 */
package org.elasticsearch.license;
import org.elasticsearch.action.ActionListener;
import org.elasticsearch.action.support.ActionFilters;
import org.elasticsearch.action.support.master.TransportMasterNodeReadAction;
import org.elasticsearch.cluster.ClusterState;
import org.elasticsearch.cluster.block.ClusterBlockException;
import org.elasticsearch.cluster.block.ClusterBlockLevel;
import org.elasticsearch.cluster.metadata.IndexNameExpressionResolver;
import org.elasticsearch.cluster.service.ClusterService;
import org.elasticsearch.common.inject.Inject;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.threadpool.ThreadPool;
import org.elasticsearch.transport.TransportService;

public class TransportGetTrialStatusAction extends TransportMasterNodeReadAction<GetTrialStatusRequest,
GetTrialStatusResponse> {

@Inject
public TransportGetTrialStatusAction(Settings settings, TransportService transportService, ClusterService
clusterService,
        ThreadPool threadPool, ActionFilters actionFilters,
        IndexNameExpressionResolver indexNameExpressionResolver) {
    super(settings, GetTrialStatusAction.NAME, transportService, clusterService, threadPool, actionFilters,
GetTrialStatusRequest::new, indexNameExpressionResolver);
}

@Override
protected String executor() {
    return ThreadPool.Names.SAME;
}

@Override
protected GetTrialStatusResponse newResponse() {
    return new GetTrialStatusResponse();
}

@override
protected void masterOperation(GetTrialStatusRequest request, ClusterState state,
        ActionListener<GetTrialStatusResponse> listener) throws Exception {
    LicensesMetaData licensesMetaData = state.metaData().custom(LicensesMetaData.TYPE);
    listener.onResponse(new GetTrialStatusResponse(licensesMetaData == null ||
licensesMetaData.isEligibleForTrial()));
}

@Override
protected ClusterBlockException checkBlock(GetTrialStatusRequest request, ClusterState state) {
    return state.blocks().globalBlockedException(ClusterBlockLevel.METADATA_READ);
}
package org.elasticsearch.license;

import org.elasticsearch.common.logging.LoggerMessageFormat;
import org.elasticsearch.common.unit.TimeValue;

import java.util.UUID;

abstract class ExpirationCallback {

    static final String EXPIRATION_JOB_PREFIX = ".license_expiration_job_";

    public enum Orientation {PRE, POST}

    /**
     * Callback that is triggered every <code>frequency</code> when
     * current time is between <code>max</code> and <code>min</code>
     * before license expiry.
     */
    public abstract static class Pre extends ExpirationCallback {

        /**
         * Callback schedule prior to license expiry
         *
         * @param min       latest relative time to execute before license expiry
         * @param max       earliest relative time to execute before license expiry
         * @param frequency interval between execution
         */
        Pre(TimeValue min, TimeValue max, TimeValue frequency) {
            super(Orientation.PRE, min, max, frequency);
        }
    }

    /**
     * Callback that is triggered every <code>frequency</code> when
     * current time is between <code>min</code> and <code>max</code>
     * after license expiry.
     */
    public abstract static class Post extends ExpirationCallback {

        /**
         * Callback schedule after license expiry
         */
    }
}
private final String id;
private final Orientation orientation;
private final long min;
private final long max;
private final long frequency;

private ExpirationCallback(Orientation orientation, TimeValue min, TimeValue max, TimeValue frequency) {
    this.orientation = orientation;
    this.min = (min == null) ? 0 : min.getMillis();
    this.max = (max == null) ? Long.MAX_VALUE : max.getMillis();
    this.frequency = frequency.getMillis();
    this.id = String.join("", EXPIRATION_JOB_PREFIX, UUID.randomUUID().toString());
}

public final String getId() {
    return id;
}

public final long getFrequency() {
    return frequency;
}

/**
 * Calculates the delay for the next trigger time. When <code>now</code> is in a
 * valid time bracket with respect to <code>expirationDate</code>, the delay is 0.
 * When <code>now</code> is before the time bracket, than delay to the start of the
 * time bracket and when <code>now</code> is passed the valid time bracket, the delay
 * is <code>null</code>
 * @param expirationDate license expiry date in milliseconds
 * @param now current time in milliseconds
 * @return time delay
 */
final TimeValue delay(long expirationDate, long now) {
    final TimeValue delay;
    switch (orientation) {
        case PRE:
            if (expirationDate >= now) {
                // license not yet expired
                // code
            } else {
                // code
            }
        case POST:
            // code
        case BEFORE:
            // code
        case AFTER:
            // code
    }
    return delay;
}
long preExpiryDuration = expirationDate - now;
if (preExpiryDuration > max) {
    // license duration is longer than maximum duration, delay it to the first match time
    delay = TimeValue.timeValueMillis(preExpiryDuration - max);
} else if (preExpiryDuration <= max && preExpiryDuration >= min) {
    // no delay in valid time bracket
    delay = TimeValue.timeValueMillis(0);
} else {
    // passed last match time
    delay = null;
}
} else {
    // invalid after license expiry
    delay = null;
}
break;
case POST:
if (expirationDate >= now) {
    // license not yet expired, delay it to the first match time
    delay = TimeValue.timeValueMillis(expirationDate - now + min);
} else {
    // license has expired
    long expiredDuration = now - expirationDate;
    if (expiredDuration < min) {
        // license expiry duration is shorter than minimum duration, delay it to the first match time
        delay = TimeValue.timeValueMillis(min - expiredDuration);
    } else if (expiredDuration >= min && expiredDuration <= max) {
        // no delay in valid time bracket
        delay = TimeValue.timeValueMillis(0);
    } else {
        // passed last match time
        delay = null;
    }
}
break;
default:
    throw new IllegalArgumentException("orientation [" + orientation + "] unknown");
}
return delay;

/**
 * @link SchedulerEngine.Schedule#nextScheduledTimeAfter(long, long) with respect to
 * license expiry date
 */
public final long nextScheduledTimeForExpiry(long expiryDate, long startTime, long time) {
    TimeValue delay = delay(expiryDate, time);
    if (delay != null) {
long delayInMillis = delay.getMillis();
if (delayInMillis == 0L) {
    if (startTime == time) {
        // initial trigger and in time bracket, schedule immediately
        return time;
    } else {
        // in time bracket, add frequency
        return time + frequency;
    }
} else {
    // not in time bracket
    return time + delayInMillis;
}
return -1;

/**
 * Code to execute when the expiry callback is triggered in a valid
 * time bracket
 * @param license license to operate on
 */
public abstract void on(License license);

public final String toString() {
    return LoggerMessageFormat.format(null, "ExpirationCallback:([{}], min [{}, max [{}, freq [{}}]",
            orientation.name(), TimeValue.timeValueMillis(min), TimeValue.timeValueMillis(max),
            TimeValue.timeValueMillis(frequency));
}

package org.elasticsearch.license;

import org.elasticsearch.ElasticsearchException;
import org.elasticsearch.Version;
import org.elasticsearch.action.ActionListener;
import org.elasticsearch.cluster.AckedClusterStateUpdateTask;
import org.elasticsearch.cluster.ClusterState;
import org.elasticsearch.cluster.ClusterStateListener;
import org.elasticsearch.cluster.ack.ClusterStateUpdateResponse;
import org.elasticsearch.cluster.metadata.MetaData;
import org.elasticsearch.cluster.node.DiscoveryNode;
public class LicenseService extends AbstractLifecycleComponent implements ClusterStateListener, SchedulerEngine.Listener {

        public static final Setting<String> SELF_GENERATED_LICENSE_TYPE = new Setting<>("xpack.license.self_generated.type", 
                (s) -> "basic", 
                (s) -> { 
                    if (SelfGeneratedLicense.validSelfGeneratedType(s)) {
                        return s; 
                    } else {
                        throw new IllegalArgumentException("Illegal self generated license type [" + s + "]. Must be trial or basic."); 
                    } 
                }, Setting.Property.NodeScope);

        }
// pkg private for tests
static final TimeValue NON_BASIC_SELF_GENERATED_LICENSE_DURATION =
TimeValue.timeValueHours(30 * 24);

static final Set<String> VALID_TRIAL_TYPES = new HashSet<>(Arrays.asList("trial", "platinum", "gold"));

/**
 * Duration of grace period after a license has expired
 */
static final TimeValue GRACE_PERIOD_DURATION = days(7);

public static final long BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS =
Long.MAX_VALUE - days(365).millis();

private final ClusterService clusterService;

/**
 * The xpack feature state to update when license changes are made.
 */
private final XPackLicenseState licenseState;

/**
 * Currently active license
 */
private final AtomicReference<License> currentLicense = new AtomicReference<>();
private SchedulerEngine scheduler;
private final Clock clock;

/**
 * File watcher for operation mode changes
 */
private final OperationModeFileWatcher operationModeFileWatcher;

/**
 * Callbacks to notify relative to license expiry
 */
private final ArrayList<ExpirationCallback> expirationCallbacks = new ArrayList<>();

/**
 * Max number of nodes licensed by generated trial license
 */
static final int SELF_GENERATED_LICENSE_MAX_NODES = 1000;

public static final String LICENSE_JOB = "licenseJob";

private static final FormatDateTimeFormatter DATE_FORMATTER = Joda.forPattern("EEEE, MMMMM dd, yyyy", Locale.ROOT);
private static final String ACKNOWLEDGEMENT_HEADER = "This license update requires acknowledgement. To acknowledge the license, " + 
"please read the following messages and update the license again, this time with the \"acknowledge=true\" parameter:";

public LicenseService(Settings settings, ClusterService clusterService, Clock clock, Environment env, 
ResourceWatcherService resourceWatcherService, XPackLicenseState licenseState) {
    super(settings);
    this.clusterService = clusterService;
    this.clock = clock;
    this.scheduler = new SchedulerEngine(clock);
    this.licenseState = licenseState;
    this.operationModeFileWatcher = new OperationModeFileWatcher(resourceWatcherService, 
        XPackPlugin.resolveConfigFile(env, "license_mode"), logger, () -> updateLicenseState(getLicense()));
    this.scheduler.register(this);
    populateExpirationCallbacks();
}

private void logExpirationWarning(long expirationMillis, boolean expired) {
    String expiredMsg = expired ? "expired" : "will expire";
    String general = LoggerMessageFormat.format(null, "License [{}] on [{}].
" +
    "# If you have a new license, please update it. Otherwise, please reach out to
" +
    "# your support contact.
" +
    "# ", expiredMsg, DATE_FORMATTER.printer().print(expirationMillis));
    if (expired) {
        general = general.toUpperCase(Locale.ROOT);
    }
    StringBuilder builder = new StringBuilder(general);
    builder.append(System.lineSeparator());
    if (expired) {
        builder.append("# COMMERCIAL PLUGINS OPERATING WITH REDUCED FUNCTIONALITY");
    } else {
        builder.append("# Commercial plugins operate with reduced functionality on license expiration:");
    }
    XPackLicenseState.EXPIRATION_MESSAGES.forEach((feature, messages) -> {
        if (messages.length > 0) {
            builder.append(System.lineSeparator());
            builder.append("# - ");
            builder.append(feature);
            for (String message : messages) {
                builder.append(System.lineSeparator());
                builder.append("#  - ");
                builder.append(message);
            }
        }
    });
    logger.warn("{}", builder);
private void populateExpirationCallbacks() {
    expirationCallbacks.add(new ExpirationCallback.Pre(days(7), days(25), days(1)) {
        @Override
        public void on(License license) {
            logExpirationWarning(license.expiryDate(), false);
        }
    });
    expirationCallbacks.add(new ExpirationCallback.Pre(days(0), days(7), TimeValue.timeValueMinutes(10)) {
        @Override
        public void on(License license) {
            logExpirationWarning(license.expiryDate(), false);
        }
    });
    expirationCallbacks.add(new ExpirationCallback.Post(days(0), null, TimeValue.timeValueMinutes(10)) {
        @Override
        public void on(License license) {
            // logged when grace period begins
            logExpirationWarning(license.expiryDate(), true);
        }
    });
}

/**
 * Registers new license in the cluster
 * Master only operation. Installs a new license on the master provided it is VALID
 */

public void registerLicense(final PutLicenseRequest request, final ActionListener<PutLicenseResponse> listener) {
    final License newLicense = request.license();
    final long now = clock.millis();
    if (!LicenseVerifier.verifyLicense(newLicense) || newLicense.issueDate() > now || newLicense.startDate() > now) {
        listener.onResponse(new PutLicenseResponse(true, LicensesStatus.INVALID));
    } else if (newLicense.type().equals("basic")) {
        listener.onFailure(new IllegalArgumentException("Registering basic licenses is not allowed.");
    } else if (newLicense.expiryDate() < now) {
        listener.onResponse(new PutLicenseResponse(true, LicensesStatus.EXPIRED));
    } else {
        if (!request.acknowledged()) {
            // TODO: ack messages should be generated on the master, since another node's cluster state may be behind...

            final License currentLicense = getLicense();
            if (currentLicense != null) {
                Map<String, String[]> acknowledgeMessages = getAckMessages(newLicense, currentLicense);
                if (acknowledgeMessages.isEmpty() == false) {
                    // needs acknowledgement
if (newLicense.isProductionLicense() 
    && XPackSettings.SECURITY_ENABLED.get(settings) 
    && XPackSettings.TRANSPORT_SSL_ENABLED.get(settings) == false 
    && isProductionMode(settings, clusterService.localNode()) { 
    // security is on but TLS is not configured we gonna fail the entire request and throw an exception 
    throw new IllegalStateException("Cannot install a \" + newLicense.operationMode() + 
        \" license unless TLS is configured or security is disabled"); 
    // TODO we should really validate that all nodes have xpack installed and are consistently configured but 
    this 
    // should happen on a different level and not in this code 
} else { 
    clusterService.submitStateUpdateTask("register license \" + newLicense.uid() + ", new 
        AckedClusterStateUpdateTask<PutLicenseResponse>(request, listener) { 
        @Override 
        protected PutLicenseResponse newResponse(boolean acknowledged) { 
            return new PutLicenseResponse(acknowledged, LicensesStatus.VALID); 
        } 
    } 
    @Override 
    public ClusterState execute(ClusterState currentState) throws Exception { 
        XPackPlugin.checkReadyForXPackCustomMetadata(currentState); 
        MetaData currentMetadata = currentState.metaData(); 
        LicensesMetaData licensesMetaData = currentMetadata.custom(LicensesMetaData.TYPE); 
        Version trialVersion = null; 
        if (licensesMetaData != null) { 
            trialVersion = licensesMetaData.getMostRecentTrialVersion(); 
        } 
        MetaData.Builder mdBuilder = MetaData.builder(currentMetadata); 
        mdBuilder.putCustom(LicensesMetaData.TYPE, new LicensesMetaData(newLicense, 
            trialVersion)); 
        return ClusterState.builder(currentState).metaData(mdBuilder).build(); 
    } 
} 

public static Map<String, String[]> getAckMessages(License newLicense, License currentLicense) { 
    Map<String, String[]> acknowledgeMessages = new HashMap<>(); 
    if (!License.isAutoGeneratedLicense(currentLicense.signature()) // current license is not auto-generated
&& currentLicense.issueDate() > newLicense.issueDate()) { // and has a later issue date
acknowledgeMessages.put("license", new String[]{
    "The new license is older than the currently installed license. " +
    "Are you sure you want to override the current license?"
});
}

XPackLicenseState.ACKNOWLEDGMENT_MESSAGES.forEach((feature, ackMessages) -> {
    String[] messages = ackMessages.apply(currentLicense.operationMode(), newLicense.operationMode());
    if (messages.length > 0) {
        acknowledgeMessages.put(feature, messages);
    }
});
return acknowledgeMessages;

private static TimeValue days(int days) {
    return TimeValue.timeValueHours(days * 24);
}

@Override
public void triggered(SchedulerEngine.Event event) {
    final LicensesMetaData licensesMetaData =
    clusterService.state().metaData().custom(LicensesMetaData.TYPE);
    if (licensesMetaData != null) {
        final License license = licensesMetaData.getLicense();
        if (event.getJobName().equals(LICENSE_JOB)) {
            updateLicenseState(license);
        } else if (event.getJobName().startsWith(ExpirationCallback.EXPIRATION_JOB_PREFIX)) {
            expirationCallbacks.stream()
                .filter(expirationCallback -> expirationCallback.getId().equals(event.getJobName()))
                .forEach(expirationCallback -> expirationCallback.on(license));
        }
    }
}

/**
 * Remove license from the cluster state metadata
 */
public void removeLicense(final DeleteLicenseRequest request, final ActionListener<ClusterStateUpdateResponse> listener) {
    clusterService.submitStateUpdateTask("delete license",
        new AckedClusterStateUpdateTask<ClusterStateUpdateResponse>(request, listener) {
            @Override
            protected ClusterStateUpdateResponse newResponse(boolean acknowledged) {
                return new ClusterStateUpdateResponse(acknowledged);
            }
        }
        @Override

public ClusterState execute(ClusterState currentState) throws Exception {
    MetaData metaData = currentState.metaData();
    final LicensesMetaData currentLicenses = metaData.custom(LicensesMetaData.TYPE);
    if (currentLicenses.getLicense() != LicensesMetaData.LICENSE_TOMBSTONE) {
        MetaData.Builder mdBuilder = MetaData.builder(currentState.metaData());
        LicensesMetaData newMetadata = new LicensesMetaData(LicensesMetaData.LICENSE_TOMBSTONE,
            currentLicenses.getMostRecentTrialVersion());
        mdBuilder.putCustom(LicensesMetaData.TYPE, newMetadata);
        return ClusterState.builder(currentState).metaData(mdBuilder).build();
    } else {
        return currentState;
    }
}

public License getLicense() {
    final License license = getLicense(clusterService.state().metaData());
    return license == LicensesMetaData.LICENSE_TOMBSTONE ? null : license;
}

void startTrialLicense(PostStartTrialRequest request, final ActionListener<PostStartTrialResponse> listener) {
    if (VALID_TRIAL_TYPES.contains(request.getType()) == false) {
        throw new IllegalArgumentException("Cannot start trial of type [" + request.getType() + "]." + VALID_TRIAL_TYPES + ");
    }
    StartTrialClusterTask task = new StartTrialClusterTask(logger, clusterService.getClusterName().value(), clock,
        request, listener);
    clusterService.submitStateUpdateTask("started trial license", task);
}

void startBasicLicense(PostStartBasicRequest request, final ActionListener<PostStartBasicResponse> listener) {
    StartBasicClusterTask task = new StartBasicClusterTask(logger, clusterService.getClusterName().value(),
        clock, request, listener);
    clusterService.submitStateUpdateTask("start basic license", task);
}

/**
 * Master-only operation to generate a one-time global self generated license.
 * The self generated license is only generated and stored if the current cluster state metadata
 * has no existing license. If the cluster currently has a basic license that has an expiration date,
 * a new basic license with no expiration date is generated.
 */
private void registerOrUpdateSelfGeneratedLicense() {
    clusterService.submitStateUpdateTask("maybe generate license for cluster",
        new StartupSelfGeneratedLicenseTask(settings, clock, clusterService));
@Override
protected void doStart() throws ElasticsearchException {
    clusterService.addListener(this);
    scheduler.start(Collections.emptyList());
    logger.debug("initializing license state");
    if (clusterService.lifecycleState() == Lifecycle.State.STARTED) {
        final ClusterState clusterState = clusterService.state();
        if (clusterState.blocks().hasGlobalBlock(GatewayService.STATE_NOT_RECOVERED_BLOCK) == false &&
          clusterState.nodes().getMasterNode() != null &&
          XPackPlugin.isReadyForXPackCustomMetadata(clusterState)) {
            final LicensesMetaData currentMetaData = clusterState.metaData().custom(LicensesMetaData.TYPE);
            boolean noLicense = currentMetaData == null || currentMetaData.getLicense() == null;
            if (clusterState.getNodes().isLocalNodeElectedMaster() &&
                (noLicense || LicenseUtils.licenseNeedsExtended(currentMetaData.getLicense()))) {
                // triggers a cluster changed event eventually notifying the current licensee
                registerOrUpdateSelfGeneratedLicense();
            }
        }
    }
}

@Override
protected void doStop() throws ElasticsearchException {
    clusterService.removeListener(this);
    scheduler.stop();
    // clear current license
    currentLicense.set(null);
}

@Override
protected void doClose() throws ElasticsearchException {
}

/**
 * When there is no global block on org.elasticsearch.gateway.GatewayService#STATE_NOT_RECOVERED_BLOCK
 * notify licensees and issue auto-generated license if no license has been installed/issued yet.
 */
@Override
public void clusterChanged(ClusterChangedEvent event) {
    final ClusterState previousClusterState = event.previousState();
    final ClusterState currentClusterState = event.state();
    if (!currentClusterState.blocks().hasGlobalBlock(GatewayService.STATE_NOT_RECOVERED_BLOCK)) {
        if (XPackPlugin.isReadyForXPackCustomMetadata(currentClusterState) == false) {
            logger.debug("cannot add license to cluster as the following nodes might not understand the license
        }
metadata: {
    () -> XPackPlugin.nodesNotReadyForXPackCustomMetadata(currentClusterState));
    return;
}

final LicensesMetaData prevLicensesMetaData = previousClusterState.getMetaData().custom(LicensesMetaData.TYPE);
final LicensesMetaData currentLicensesMetaData = currentClusterState.getMetaData().custom(LicensesMetaData.TYPE);
if (logger.isDebugEnabled()) {
    logger.debug("previous 
[{}\)], prevLicensesMetaData);
    logger.debug("current 
[{}\)], currentLicensesMetaData);
}

// notify all interested plugins
if (previousClusterState.blocks().hasGlobalBlock(GatewayService.STATE_NOT_RECOVERED_BLOCK) || prevLicensesMetaData == null) {
    if (currentLicensesMetaData != null) {
        onUpdate(currentLicensesMetaData);
    } else if (!prevLicensesMetaData.equals(currentLicensesMetaData)) {
        onUpdate(currentLicensesMetaData);
    }
}

License currentLicense = null;
boolean noLicenseInPrevMetadata = prevLicensesMetaData == null || prevLicensesMetaData.getLicense() == null;
if (noLicenseInPrevMetadata == false) {
    currentLicense = prevLicensesMetaData.getLicense();
}

boolean noLicenseInCurrentMetadata = (currentLicensesMetaData == null ||
currentLicensesMetaData.getLicense() == null);
if (noLicenseInCurrentMetadata == false) {
    currentLicense = currentLicensesMetaData.getLicense();
}

boolean noLicense = noLicenseInPrevMetadata && noLicenseInCurrentMetadata;
// auto-generate license if no licenses ever existed or if the current license is basic and
// needs extended or if the license signature needs to be updated. this will trigger a subsequent cluster changed event
if (currentClusterState.getNodes().isLocalNodeElectedMaster() &&
    (noLicense || LicenseUtils.licenseNeedsExtended(currentLicense) ||
     LicenseUtils.signatureNeedsUpdate(currentLicense, currentClusterState.nodes()))) {
    registerOrUpdateSelfGeneratedLicense();
}
} else if (logger.isDebugEnabled()) {
    logger.debug("skipped license notifications reason: 
[{}\)], GatewayService.STATE_NOT_RECOVERED_BLOCK);
}
protected void updateLicenseState(final License license) {
    if (license == LicensesMetaData.LICENSE_TOMBSTONE) {
        // implies license has been explicitly deleted
        licenseState.update(License.OperationMode.MISSING, false);
        return;
    }
    if (license != null) {
        long time = clock.millis();
        boolean active;
        if (license.expiryDate() == BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS) {
            active = true;
        } else {
            // We subtract the grace period from the current time to avoid overflowing on an expiration
            // date that is near Long.MAX_VALUE
            active = time >= license.issueDate() && time - GRACE_PERIOD_DURATION.getMillis() <
                    license.expiryDate();
        }
        licenseState.update(license.operationMode(), active);
    }
}

/**
 * Notifies registered licensees of license state change and/or new active license
 * based on the license in <code>currentLicensesMetaData</code>.
 * Additionally schedules license expiry notifications and event callbacks
 * relative to the current license's expiry
 */
private void onUpdate(final LicensesMetaData currentLicensesMetaData) {
    final License license = getLicense(currentLicensesMetaData);
    // license can be null if the trial license is yet to be auto-generated
    // in this case, it is a no-op
    if (license != null) {
        final License previousLicense = currentLicense.get();
        if (license.equals(previousLicense) == false) {
            currentLicense.set(license);
            license.setOperationModeFileWatcher(operationModeFileWatcher);
            
            licenseState.update(License.OperationMode.MISSING, false);
            return;
        }

        if (active) {
            if (time < license.expiryDate()) {
                logger.debug("license [{ }] - valid", license.uid());
            } else {
                logger.warn("license [{ }] - grace", license.uid());
            } else {
                logger.warn("license [{ }] - expired", license.uid());
            }
        } else {
            logger.warn("license [{ }] - expired", license.uid());
        }
    }
}

final License license = getLicense(currentLicensesMetaData);
// license can be null if the trial license is yet to be auto-generated
// in this case, it is a no-op
if (license != null) {
    final License previousLicense = currentLicense.get();
    if (license.equals(previousLicense) == false) {
        currentLicense.set(license);
        license.setOperationModeFileWatcher(operationModeFileWatcher);
scheduler.add(new SchedulerEngine.Job(LICENSE_JOB, nextLicenseCheck(license)));
for (ExpirationCallback expirationCallback : expirationCallbacks) {
    scheduler.add(new SchedulerEngine.Job(expirationCallback.getId(),
        (startTime, now) ->
            expirationCallback.nextScheduledTimeForExpiry(license.expiryDate(), startTime, now)));
}
if (previousLicense != null) {
    // remove operationModeFileWatcher to gc the old license object
    previousLicense.removeOperationModeFileWatcher();
    logger.info("license [{ }] mode [{ }] - valid", license.uid(),
        license.operationMode().name().toLowerCase(Locale.ROOT));
    updateLicenseState(license);
}

// pkg private for tests
static SchedulerEngine.Schedule nextLicenseCheck(License license) {
    return (startTime, time) -> {
        if (time < license.issueDate()) {
            // when we encounter a license with a future issue date
            // which can happen with autogenerated license,
            // we want to schedule a notification on the license issue date
            // so the license is notified once it is valid
            // see https://github.com/elastic/x-plugins/issues/983
            return license.issueDate();
        } else if (time < license.expiryDate()) {
            return license.expiryDate();
        } else if (time < license.expiryDate() + GRACE_PERIOD_DURATION.getMillis()) {
            return license.expiryDate() + GRACE_PERIOD_DURATION.getMillis();
        }
        return -1; // license is expired, no need to check again
    };
}

public static License getLicense(final MetaData metaData) {
    final LicensesMetaData licensesMetaData = metaData.custom(LicensesMetaData.TYPE);
    return getLicense(licensesMetaData);
}

static License getLicense(final LicensesMetaData metaData) {
    if (metaData != null) {
        License license = metaData.getLicense();
        if (license == LicensesMetaData.LICENSE_TOMBSTONE) {
            return license;
        } else if (license != null) {
            boolean autoGeneratedLicense = License.isAutoGeneratedLicense(license.signature());
            return license;
        } else if (license != null) {
            boolean autoGeneratedLicense = License.isAutoGeneratedLicense(license.signature());
            return license;
        }
    }
    return null;
}
if ((autoGeneratedLicense && SelfGeneratedLicense.verify(license)) || (!autoGeneratedLicense && LicenseVerifier.verifyLicense(license))) {
    return license;
}
}
return null;
}

private static boolean isProductionMode(Settings settings, DiscoveryNode localNode) {
    final boolean singleNodeDisco = "single-node".equals(DiscoveryModule.DISCOVERY_TYPE_SETTING.get(settings));
    return singleNodeDisco == false && isBoundToLoopback(localNode) == false;
}

private static boolean isBoundToLoopback(DiscoveryNode localNode) {
    return localNode.getAddress().address().getAddress().isLoopbackAddress();
}
}/**
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 * or more contributor license agreements. Licensed under the Elastic License;
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 */
package org.elasticsearch.license;

import org.elasticsearch.action.support.master.AcknowledgedRequestBuilder;
import org.elasticsearch.client.ElasticsearchClient;

public class DeleteLicenseRequestBuilder extends AcknowledgedRequestBuilder<DeleteLicenseRequest,
DeleteLicenseResponse,
DeleteLicenseRequestBuilder> {
    public DeleteLicenseRequestBuilder(ElasticsearchClient client) {
        this(client, DeleteLicenseAction.INSTANCE);
    }

    public DeleteLicenseRequestBuilder(ElasticsearchClient client) {
        this(client, DeleteLicenseAction.INSTANCE);
    }

    /**
     * Creates new get licenses request builder
     *
     * @param client elasticsearch client
     */
    public DeleteLicenseRequestBuilder(ElasticsearchClient client, DeleteLicenseAction action) {
        super(client, action, new DeleteLicenseRequest());
    }
}
}/**
 * Copyright Elasticsearch B.V. and/or licensed to Elasticsearch B.V. under one
 */
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.xcontent.ToXContent;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.rest.BytesRestResponse;
import org.elasticsearch.rest.RestController;
import org.elasticsearch.rest.RestRequest;
import org.elasticsearch.rest.RestResponse;
import org.elasticsearch.rest.action.RestBuilderListener;
import org.elasticsearch.xpack.core.XPackClient;
import org.elasticsearch.xpack.core.rest.XPackRestHandler;

import java.io.IOException;
import static org.elasticsearch.rest.RestRequest.Method.POST;

public class RestPostStartBasicLicense extends XPackRestHandler {

    RestPostStartBasicLicense(Settings settings, RestController controller) {
        super(settings);
        controller.registerHandler(POST, URI_BASE + "/license/start_basic", this);
    }

    @Override
    protected RestChannelConsumer doPrepareRequest(RestRequest request, XPackClient client) throws IOException {
        PostStartBasicRequest startBasicRequest = new PostStartBasicRequest();
        startBasicRequest.acknowledge(request.paramAsBoolean("acknowledge", false));
        startBasicRequest.timeout(request.paramAsTime("timeout", startBasicRequest.timeout()));
        startBasicRequest.masterNodeTimeout(request.paramAsTime("master_timeout",
            startBasicRequest.masterNodeTimeout()));
        return channel -> client.licensing().postStartBasic(startBasicRequest, new
            RestBuilderListener<PostStartBasicResponse>(channel) {
                @Override
                public RestResponse buildResponse(PostStartBasicResponse response, XContentBuilder builder) throws
                    Exception {
                    PostStartBasicResponse.Status status = response.getStatus();
                    response.toXContent(builder, ToXContent.EMPTY_PARAMS);
                    return new BytesRestResponse(status.getRestStatus(), builder);
                }
            });
    }

    @Override
    public RestResponse buildResponse(PostStartBasicResponse response, XContentBuilder builder) throws
        Exception {
        PostStartBasicResponse.Status status = response.getStatus();
        response.toXContent(builder, ToXContent.EMPTY_PARAMS);
        return new BytesRestResponse(status.getRestStatus(), builder);
    }
}
public String getName() {
    return "xpack_start_basic_action";
}
*/

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*/

package org.elasticsearch.license;

import org.elasticsearch.Version;
import org.elasticsearch.action.ActionResponse;
import org.elasticsearch.common.Nullable;
import org.elasticsearch.common.io.stream.StreamInput;
import org.elasticsearch.common.io.stream.StreamOutput;
import org.elasticsearch.common.io.stream.Writeable;
import org.elasticsearch.common.xcontent.ToXContentObject;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.xpack.core.XPackBuild;

import java.io.IOException;
import java.util.ArrayList;
import java.util.Collections;
import java.util.HashMap;
import java.util.List;
import java.util.Locale;
import java.util.Map;
import java.util.Set;
import java.util.stream.Collectors;

public class XPackInfoResponse extends ActionResponse {

    @Nullable private BuildInfo buildInfo;
    @Nullable private LicenseInfo licenseInfo;
    @Nullable private FeatureSetsInfo featureSetsInfo;

    public XPackInfoResponse() {}  

    public XPackInfoResponse(@Nullable BuildInfo buildInfo, @Nullable LicenseInfo licenseInfo, @Nullable FeatureSetsInfo featureSetsInfo) {
        this.buildInfo = buildInfo;
        this.licenseInfo = licenseInfo;
        this.featureSetsInfo = featureSetsInfo;
    }

    /**
     * @return The build info (incl. build hash and timestamp)
public BuildInfo getBuildInfo() {
    return buildInfo;
}

/**
 * @return  The current license info (incl. UID, type/mode, status and expiry date). May return { @code null } when no
 *          license is currently installed.
 */
public LicenseInfo getLicenseInfo() {
    return licenseInfo;
}

/**
 * @return  The current status of the feature sets in X-Pack. Feature sets describe the features available/enabled in
 *          X-Pack.
 */
public FeatureSetsInfo getFeatureSetsInfo() {
    return featureSetsInfo;
}

@Override
public void writeTo(StreamOutput out) throws IOException {
    super.writeTo(out);
    out.writeOptionalWriteable(buildInfo);
    out.writeOptionalWriteable(licenseInfo);
    out.writeOptionalWriteable(featureSetsInfo);
}

@Override
public void readFrom(StreamInput in) throws IOException {
    this.buildInfo = in.readOptionalWriteable(BuildInfo::new);
    this.licenseInfo = in.readOptionalWriteable(LicenseInfo::new);
    this.featureSetsInfo = in.readOptionalWriteable(FeatureSetsInfo::new);
}

public static class LicenseInfo implements ToXContentObject, Writeable {

    private final String uid;
    private final String type;
    private final String mode;
    private final long expiryDate;
    private final License.Status status;

    public LicenseInfo(License license) {
        this(license.uid(), license.type(), license.operationMode().name().toLowerCase(Locale.ROOT),
                license.status(), license.expiryDate());
    }

    public LicenseInfo(String uid, String type, String mode, long expiryDate, License.Status status) {
        this.uid = uid;
        this.type = type;
        this.mode = mode;
        this.expiryDate = expiryDate;
        this.status = status;
    }

    @Override
    public void write(GrowableByteBuffer out, EncoderContext context) throws IOException {
        context.addTagValue("uid", uid);
        context.addTagValue("type", type);
        context.addTagValue("operationMode", mode);
        context.addTagValue("status", status.name());
        context.addTagValue("expiryDate", expiryDate);
    }

    @Override
    public void readFrom(GrowableByteBuffer in, DecoderContext context) throws IOException {
        uid = context.getTagValue("uid").asString();
        type = context.getTagValue("type").asString();
        mode = context.getTagValue("operationMode").asString().toLowerCase(Locale.ROOT);
        status = License.Status.valueOf(context.getTagValue("status"));
        expiryDate = context.getTagValue("expiryDate").asLong();
    }
}

public class License {

    private final String uid;
    private final String type;
    private final OperationMode operationMode;
    private final License.Status status;
    private final long expiryDate;

    public License(String uid, String type, OperationMode operationMode, License.Status status, long expiryDate) {
        this.uid = uid;
        this.type = type;
        this.operationMode = operationMode;
        this.status = status;
        this.expiryDate = expiryDate;
    }

    // Getters and setters
}

public enum OperationMode {

    PRODUCTION("production"),
    DEVELOPMENT("development"),
    TEST("test"),
    STAGING("staging"),
    NULL("null"),
    DEFAULT("default"),

    private final String operationMode;

    OperationMode(String operationMode) {
        this.operationMode = operationMode;
    }

    public String name() {
        return operationMode;
    }

    @Override
    public String toString() {
        return operationMode;
    }
}

public enum License.Status {

    ACTIVE("active"),
    PENDING("pending"),
    TRAILING("trailing"),
    EXPIRED("expired"),
    NULL("null"),
    DEFAULT("default"),

    private final String status;

    License.Status(String status) {
        this.status = status;
    }

    public String name() {
        return status;
    }

    @Override
    public String toString() {
        return status;
    }
}


public LicenseInfo(StreamInput in) throws IOException {
    this(in.readString(), in.readString(), in.readString(), License.Status.readFrom(in), in.readLong());
}

class LicenseInfo {
    private String uid;
    private String type;
    private String mode;
    private License.Status status;
    private long expiryDate;

    public LicenseInfo(String uid, String type, String mode, License.Status status, long expiryDate) {
        this.uid = uid;
        this.type = type;
        this.mode = mode;
        this.status = status;
        this.expiryDate = expiryDate;
    }

    public String getUid() {
        return uid;
    }

    public String getType() {
        return type;
    }

    public String getMode() {
        return mode;
    }

    public long getExpiryDate() {
        return expiryDate;
    }

    public License.Status getStatus() {
        return status;
    }

    @Override
    public XContentBuilder toXContent(XContentBuilder builder, Params params) throws IOException {
        builder.startObject()
            .field("uid", uid)
            .field("type", type)
            .field("mode", mode)
            .field("status", status.label());
        if (expiryDate != LicenseService.BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS) {
            builder.timeField("expiry_date_in_millis", "expiry_date", expiryDate);
        }
        return builder.endObject();
    }

    public void writeTo(StreamOutput out) throws IOException {

    }
}
out.writeString(uid);
out.writeString(type);
out.writeString(mode);
status.writeTo(out);
out.writeLong(expiryDate);
}
}

public static class BuildInfo implements ToXContentObject, Writeable {

private final String hash;
private final String timestamp;

public BuildInfo(XPackBuild build) {
    this(build.shortHash(), build.date());
}

public BuildInfo(StreamInput input) throws IOException {
    this(input.readString(), input.readString());
}

public BuildInfo(String hash, String timestamp) {
    this.hash = hash;
    this.timestamp = timestamp;
}

public String getHash() {
    return hash;
}

public String getTimestamp() {
    return timestamp;
}

@Override
public XContentBuilder toXContent(XContentBuilder builder, Params params) throws IOException {
    return builder.startObject()
        .field("hash", hash)
        .field("date", timestamp)
        .endObject();
}

public void writeTo(StreamOutput output) throws IOException {
    output.writeString(hash);
    output.writeString(timestamp);
}
}
public static class FeatureSetsInfo implements ToXContentObject, Writeable {

    private final Map<String, FeatureSet> featureSets;

    public FeatureSetsInfo(StreamInput in) throws IOException {
        int size = in.readVInt();
        Map<String, FeatureSet> featureSets = new HashMap<>(size);
        for (int i = 0; i < size; i++) {
            FeatureSet featureSet = new FeatureSet(in);
            featureSets.put(featureSet.name, featureSet);
        }
        this.featureSets = Collections.unmodifiableMap(featureSets);
    }

    public FeatureSetsInfo(Set<FeatureSet> featureSets) {
        Map<String, FeatureSet> map = new HashMap<>(featureSets.size());
        for (FeatureSet featureSet : featureSets) {
            map.put(featureSet.name, featureSet);
        }
        this.featureSets = Collections.unmodifiableMap(map);
    }

    public Map<String, FeatureSet> getFeatureSets() {
        return featureSets;
    }

    @Override
    public XContentBuilder toXContent(XContentBuilder builder, Params params) throws IOException {
        builder.startObject();
        List<String> names = new ArrayList<>(this.featureSets.keySet()).stream().sorted().collect(Collectors.toList());
        for (String name : names) {
            builder.field(name, featureSets.get(name), params);
        }
        return builder.endObject();
    }

    public void writeTo(StreamOutput out) throws IOException {
        out.writeVInt(featureSets.size());
        for (FeatureSet featureSet : featureSets.values()) {
            featureSet.writeTo(out);
        }
    }

    public static class FeatureSet implements ToXContentObject, Writeable {

        private final String name;
        @Nullable private final String description;

    }
}
private final boolean available;
private final boolean enabled;
@Nullable private final Map<String, Object> nativeCodeInfo;

public FeatureSet(StreamInput in) throws IOException {
    this(in.readString(), in.readOptionalString(), in.readBoolean(), in.readBoolean(),
        in.getVersion().onOrAfter(Version.V_5_4_0) ? in.readMap() : null);
}

public FeatureSet(String name, @Nullable String description, boolean available, boolean enabled,
    @Nullable Map<String, Object> nativeCodeInfo) {
    this.name = name;
    this.description = description;
    this.available = available;
    this.enabled = enabled;
    this.nativeCodeInfo = nativeCodeInfo;
}

public String name() {
    return name;
}

@Nullable
public String description() {
    return description;
}

public boolean available() {
    return available;
}

public boolean enabled() {
    return enabled;
}

@Nullable
public Map<String, Object> nativeCodeInfo() {
    return nativeCodeInfo;
}

public XContentBuilder toXContent(XContentBuilder builder, Params params) throws IOException {
    builder.startObject();
    if (description != null) {
        builder.field("description", description);
    }
    builder.field("available", available);
    builder.field("enabled", enabled);
    if (nativeCodeInfo != null) {
public void writeTo(StreamOutput out) throws IOException {
    out.writeString(name);
    out.writeOptionalString(description);
    out.writeBoolean(available);
    out.writeBoolean(enabled);
    if (out.getVersion().onOrAfter(Version.V_5_4_0)) {
        out.writeMap(nativeCodeInfo);
    }
}
}
import org.elasticsearch.rest.RestStatus;
import org.elasticsearch.rest.action.RestBuilderListener;
import org.elasticsearch.xpack.core.XPackClient;
import org.elasticsearch.xpack.core.rest.XPackRestHandler;

import java.io.IOException;
import static org.elasticsearch.rest.RestRequest.Method.GET;

public class RestGetBasicStatus extends XPackRestHandler {

RestGetBasicStatus(Settings settings, RestController controller) {
  super(settings);
  controller.registerHandler(GET, URI_BASE + "/license/basic_status", this);
}

@Override
protected RestChannelConsumer doPrepareRequest(RestRequest request, XPackClient client) throws IOException {
  return channel -> client.licensing().prepareGetStartBasic().execute(
    new RestBuilderListener<GetBasicStatusResponse>(channel) {
      @Override
      public RestResponse buildResponse(GetBasicStatusResponse response, XContentBuilder builder) throws Exception {
        builder.startObject();
        builder.field("eligible_to_start_basic", response.isEligibleToStartBasic());
        builder.endObject();
        return new BytesRestResponse(RestStatus.OK, builder);
      }
    });
}

@Override
public String getName() {
  return "xpack_basic_status_action";
}
}
import org.elasticsearch.common.io.stream.StreamInput;
import org.elasticsearch.common.io.stream.StreamOutput;
import org.elasticsearch.common.xcontent.XContentType;
import java.io.IOException;

public class PutLicenseRequest extends AcknowledgedRequest<PutLicenseRequest> {

    private License license;
    private boolean acknowledge = false;

    public PutLicenseRequest() {
    }

    @Override
    public ActionRequestValidationException validate() {
        return (license == null) ? ValidateActions.addValidationError("license is missing", null) : null;
    }

    /**
     * Parses license from json format to an instance of [License]
     *
     * @param licenseDefinition license definition
     * @param xContentType the content type of the license
     */
    public PutLicenseRequest license(BytesReference licenseDefinition, XContentType xContentType) {
        try {
            return license(License.fromSource(licenseDefinition, xContentType));
        } catch (IOException e) {
            throw new IllegalArgumentException("failed to parse license source", e);
        }
    }

    public PutLicenseRequest license(License license) {
        this.license = license;
        return this;
    }

    public License license() {
        return license;
    }

    public PutLicenseRequest acknowledge(boolean acknowledge) {
        this.acknowledge = acknowledge;
        return this;
    }
}
public boolean acknowledged() {
    return acknowledge;
}

@Override
public void readFrom(StreamInput in) throws IOException {
    super.readFrom(in);
    license = License.readLicense(in);
    acknowledge = in.readBoolean();
}

@Override
public void writeTo(StreamOutput out) throws IOException {
    super.writeTo(out);
    license.writeTo(out);
    out.writeBoolean(acknowledge);
}

package org.elasticsearch.license;

import org.elasticsearch.action.Action;

public class PostStartBasicAction extends Action<PostStartBasicResponse> {

    public static final PostStartBasicAction INSTANCE = new PostStartBasicAction();
    public static final String NAME = "cluster:admin/xpack/license/start_basic";

    private PostStartBasicAction() {
        super(NAME);
    }

    @Override
    public PostStartBasicResponse newResponse() {
        return new PostStartBasicResponse();
    }

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     */
    package org.elasticsearch.license;
import org.elasticsearch.action.ActionRequestValidationException;
import org.elasticsearch.action.support.master.AcknowledgedRequest;
import org.elasticsearch.common.io.stream.StreamInput;
import org.elasticsearch.common.io.stream.StreamOutput;
import java.io.IOException;

public class PostStartBasicRequest extends AcknowledgedRequest<PostStartBasicRequest> {

    private boolean acknowledge = false;

    @Override
    public ActionRequestValidationException validate() {
        return null;
    }

    public PostStartBasicRequest acknowledge(boolean acknowledge) {
        this.acknowledge = acknowledge;
        return this;
    }

    public boolean isAcknowledged() {
        return acknowledge;
    }

    @Override
    public void readFrom(StreamInput in) throws IOException {
        super.readFrom(in);
        acknowledge = in.readBoolean();
    }

    @Override
    public void writeTo(StreamOutput out) throws IOException {
        super.writeTo(out);
        out.writeBoolean(acknowledge);
    }
}

package org.elasticsearch.license;

import org.elasticsearch.action.ActionResponse;
import org.elasticsearch.common.io.stream.StreamInput;
import org.elasticsearch.common.io.stream.StreamOutput;

import org.elasticsearch.action.ActionRequestValidationException;
import org.elasticsearch.action.support.master.AcknowledgedRequest;
import org.elasticsearch.common.io.stream.StreamInput;
import org.elasticsearch.common.io.stream.StreamOutput;

import java.io.IOException;

public class PostStartBasicRequest extends AcknowledgedRequest<PostStartBasicRequest> {

    private boolean acknowledge = false;

    @Override
    public ActionRequestValidationException validate() {
        return null;
    }

    public PostStartBasicRequest acknowledge(boolean acknowledge) {
        this.acknowledge = acknowledge;
        return this;
    }

    public boolean isAcknowledged() {
        return acknowledge;
    }

    @Override
    public void readFrom(StreamInput in) throws IOException {
        super.readFrom(in);
        acknowledge = in.readBoolean();
    }

    @Override
    public void writeTo(StreamOutput out) throws IOException {
        super.writeTo(out);
        out.writeBoolean(acknowledge);
    }
}

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package org.elasticsearch.license;

import org.elasticsearch.action.ActionResponse;
import org.elasticsearch.common.io.stream.StreamInput;
import org.elasticsearch.common.io.stream.StreamOutput;


import java.io.IOException;

class GetBasicStatusResponse extends ActionResponse {

    private boolean eligibleToStartBasic;

    GetBasicStatusResponse() {
    }

    GetBasicStatusResponse(boolean eligibleToStartBasic) {
        this.eligibleToStartBasic = eligibleToStartBasic;
    }

    boolean isEligibleToStartBasic() {
        return eligibleToStartBasic;
    }

    @Override
    public void readFrom(StreamInput in) throws IOException {
        eligibleToStartBasic = in.readBoolean();
    }

    @Override
    public void writeTo(StreamOutput out) throws IOException {
        out.writeBoolean(eligibleToStartBasic);
    }
}

package org.elasticsearch.license;

import org.elasticsearch.common.joda.FormatDateTimeFormatter;
import org.elasticsearch.common.joda.Joda;
import org.joda.time.MutableDateTime;
import org.joda.time.format.DateTimeFormatter;
import org.joda.time.format.ISODateTimeFormat;

public class DateUtils {

    private static final FormatDateTimeFormatter formatDateOnlyFormatter = Joda.forPattern("yyyy-MM-dd");
    private static final DateTimeFormatter dateOnlyFormatter = formatDateOnlyFormatter.parser().withZoneUTC();
    private static final DateTimeFormatter dateTimeFormatter = ISODateTimeFormat.dateTime().withZoneUTC();

    public class DateUtils {

        private static final FormatDateTimeFormatter formatDateOnlyFormatter = Joda.forPattern("yyyy-MM-dd");
        private static final DateTimeFormatter dateOnlyFormatter = formatDateOnlyFormatter.parser().withZoneUTC();
        private static final DateTimeFormatter dateTimeFormatter = ISODateTimeFormat.dateTime().withZoneUTC();
public static long endOfTheDay(String date) {
    try {
        // Try parsing using complete date/time format
        return dateTimeFormatter.parseDateTime(date).getMillis();
    } catch (IllegalArgumentException ex) {
        // Fall back to the date only format
        MutableDateTime dateTime = dateOnlyFormatter.parseMutableDateTime(date);
        dateTime.millisOfDay().set(dateTime.millisOfDay().getMaximumValue());
        return dateTime.getMillis();
    }
}

public static long beginningOfTheDay(String date) {
    try {
        // Try parsing using complete date/time format
        return dateTimeFormatter.parseDateTime(date).getMillis();
    } catch (IllegalArgumentException ex) {
        // Fall back to the date only format
        return dateOnlyFormatter.parseDateTime(date).getMillis();
    }
}

package org.elasticsearch.license;

public enum LicensesStatus {
    VALID((byte) 0),
    INVALID((byte) 1),
    EXPIRED((byte) 2);

    private final byte id;

    LicensesStatus(byte id) {
        this.id = id;
    }

    public int id() {
        return id;
    }

    public static LicensesStatus fromId(int id) {
        if (id == 0) {
            return VALID;
        }
if(id == 1) {
  return INVALID;
} else if (id == 2) {
  return EXPIRED;
} else {
  throw new IllegalStateException("no valid LicensesStatus for id=" + id);
}
*/

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 */

package org.elasticsearch.license;

import org.elasticsearch.common.inject.Inject;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.xcontent.ToXContent;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.rest.BytesRestResponse;
import org.elasticsearch.rest.RestController;
import org.elasticsearch.rest.RestRequest;
import org.elasticsearch.rest.RestResponse;
import org.elasticsearch.rest.action.RestBuilderListener;
import org.elasticsearch.xpack.core.XPackClient;
import org.elasticsearch.xpack.core.rest.XPackRestHandler;

import java.io.IOException;
import java.util.HashMap;
import java.util.Map;
import static org.elasticsearch.rest.RestRequest.Method.GET;
import static org.elasticsearch.rest.RestStatus.NOT_FOUND;
import static org.elasticsearch.rest.RestStatus.OK;

public class RestGetLicenseAction extends XPackRestHandler {

  @Inject
  public RestGetLicenseAction(Settings settings, RestController controller) {
    super(settings);
    controller.registerHandler(GET, URI_BASE + "/license", this);
  }

  @Override
  public String getName() {
    return "xpack_get_license_action";
  }
}
/**
 * There will be only one license displayed per feature, the selected license will have the latest expiry_date
 * out of all other licenses for the feature.
 * <p>
 * The licenses are sorted by latest issue_date
 */

@Override
public RestChannelConsumer doPrepareRequest(final RestRequest request, final XPackClient client) throws IOException {
    final Map<String, String> overrideParams = new HashMap<>(2);
    overrideParams.put(License.REST_VIEW_MODE, "true");
    overrideParams.put(License.LICENSE_VERSION_MODE, String.valueOf(License.VERSION_CURRENT));
    final ToXContent.Params params = new ToXContent.DelegatingMapParams(overrideParams, request);
    GetLicenseRequest getLicenseRequest = new GetLicenseRequest();
    getLicenseRequest.local(request.paramAsBoolean("local", getLicenseRequest.local()));
    return channel -> client.es().admin().cluster().execute(GetLicenseAction.INSTANCE, getLicenseRequest,
        new RestBuilderListener<GetLicenseResponse>(channel) {
            @Override
            public RestResponse buildResponse(GetLicenseResponse response, XContentBuilder builder) throws Exception {
                // Default to pretty printing, but allow ?pretty=false to disable
                if (!request.hasParam("pretty")) {
                    builder.prettyPrint().ifAtEnd();
                }
                boolean hasLicense = response.license() != null;
                builder.startObject();
                if (hasLicense) {
                    builder.startObject("license");
                    response.license().toInnerXContent(builder, params);
                    builder.endObject();
                }
                builder.endObject();
                return new BytesRestResponse(hasLicense ? OK : NOT_FOUND, builder);
            }
        });
    }
}

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 */

package org.elasticsearch.license;

import java.io.IOException;
import java.io.InputStream;
import java.nio.ByteBuffer;
import java.util.ArrayList;
import java.util.Base64;
import java.util.Comparator;
import java.util.List;
import java.util.Locale;

import org.apache.lucene.util.CollectionUtil;
import org.elasticsearch.ElasticsearchException;
import org.elasticsearch.ElasticsearchParseException;
import org.elasticsearch.common.Strings;
import org.elasticsearch.common.bytes.BytesReference;
import org.elasticsearch.common.io.stream.StreamInput;
import org.elasticsearch.common.io.stream.StreamOutput;
import org.elasticsearch.common.xcontent.LoggingDeprecationHandler;
import org.elasticsearch.common.xcontent.NamedXContentRegistry;
import org.elasticsearch.common.xcontent.ToXContent;
import org.elasticsearch.common.xcontent.ToXContentObject;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.common.xcontent.XContentFactory;
import org.elasticsearch.common.xcontent.XContentType;

/**
 * Data structure for license. Use { @link Builder} to build a license.
 * Provides serialization/deserialization & validation methods for license object
 */
public class License implements ToXContentObject {

    public static final int VERSION_START = 1;
    public static final int VERSION_NO_FEATURE_TYPE = 2;
    public static final int VERSION_START_DATE = 3;
    public static final int VERSION_CRYPTO_ALGORITHMS = 4;
    public static final int VERSION_CURRENT = VERSION_CRYPTO_ALGORITHMS;

    /**
     * XContent param name to deserialize license(s) with
     * an additional <code>status</code> field, indicating whether a
     * particular license is 'active' or 'expired' and no signature
     * and in a human readable format
     */
    public static final String REST_VIEW_MODE = "rest_view";
    /**
     * XContent param name to deserialize license(s) with
     * no signature
     */
    public static final String LICENSE_SPEC_VIEW_MODE = "license_spec_view";
    /**
     * XContent param name to deserialize licenses according
     */
/* to a specific license version */

public static final String LICENSE_VERSION_MODE = "license_version";

public static final Comparator<License> LATEST_ISSUE_DATE_FIRST = Comparator.comparing(License::issueDate).reversed();

private final int version;
private final String uid;
private final String issuer;
private final String issuedTo;
private final long issueDate;
private final String type;
private final String subscriptionType;
private final String feature;
private final String signature;
private final long expiryDate;
private final long startDate;
private final int maxNodes;
private final OperationMode operationMode;

/**
 * Decouples operation mode of a license from the license type value.
 * <p>
 * Note: The mode indicates features that should be made available, but it does not indicate whether the license is active!
 * <p>
 * The id byte is used for ordering operation modes
 */

public enum OperationMode {
    MISSING((byte) 0),
    TRIAL((byte) 1),
    BASIC((byte) 2),
    STANDARD((byte) 3),
    GOLD((byte) 4),
    PLATINUM((byte) 5);

    private final byte id;

    OperationMode(byte id) {
        this.id = id;
    }

    /** Returns non-zero positive number when opMode1 is greater than opMode2 */
    public static int compare(OperationMode opMode1, OperationMode opMode2) {
        return Integer.compare(opMode1.id, opMode2.id);
    }
public static OperationMode resolve(String type) {
    switch (type.toLowerCase(Locale.ROOT)) {
        case "missing":
            return MISSING;
        case "trial":
            case "none": // bwc for 1.x subscription_type field
            case "dev": // bwc for 1.x subscription_type field
            case "development": // bwc for 1.x subscription_type field
                return TRIAL;
        case "basic":
            return BASIC;
        case "standard":
            return STANDARD;
        case "silver":
        case "gold":
            return GOLD;
        case "platinum":
        case "cloud_internal":
        case "internal": // bwc for 1.x subscription_type field
            return PLATINUM;
        default:
            throw new IllegalArgumentException("unknown type [" + type + "]");
    }
}

private License(int version, String uid, String issuer, String issuedTo, long issueDate, String type,
                String subscriptionType, String feature, String signature, long expiryDate, int maxNodes, long startDate) {
    this.version = version;
    this.uid = uid;
    this.issuer = issuer;
    this.issuedTo = issuedTo;
    this.issueDate = issueDate;
    this.type = type;
    this.subscriptionType = subscriptionType;
    this.feature = feature;
    this.signature = signature;
    // We will validate that only a basic license can have the
    BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS
    // in the validate() method.
    if (expiryDate == -1) {
        this.expiryDate = LicenseService.BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS;
    } else {
        this.expiryDate = expiryDate;
    }
    this.maxNodes = maxNodes;
this.startDate = startDate;
if (version == VERSION_START) {
    // in 1.x: the acceptable values for 'subscription_type': none | dev | silver | gold | platinum
    this.operationMode = OperationMode.resolve(subscriptionType);
} else {
    // in 2.x: the acceptable values for 'type': trial | basic | silver | dev | gold | platinum
    this.operationMode = OperationMode.resolve(type);
}
validate();

/**
 * @return version of the license
 */
public int version() {
    return version;
}

/**
 * @return a unique identifier for a license
 */
public String uid() {
    return uid;
}

/**
 * @return type of the license [trial, subscription, internal]
 */
public String type() {
    return type;
}

/**
 * @return the issueDate in milliseconds
 */
public long issueDate() {
    return issueDate;
}

/**
 * @return the startDate in milliseconds
 */
public long startDate() {
    return startDate;
}

/**
 * @return the expiry date in milliseconds
 */
/*
public long expiryDate() {
    return expiryDate;
}

/**
 * @return the maximum number of nodes this license has been issued for
 */
public int maxNodes() {
    return maxNodes;
}

/**
 * @return a string representing the entity this license has been issued to
 */
public String issuedTo() {
    return issuedTo;
}

/**
 * @return a string representing the entity responsible for issuing this license (internal)
 */
public String issuer() {
    return issuer;
}

/**
 * @return a string representing the signature of the license used for license verification
 */
public String signature() {
    return signature;
}

/**
 * @return the operation mode of the license as computed from the license type or from
 * the license mode file
 */
public OperationMode operationMode() {
    synchronized (this) {
        if (canReadOperationModeFromFile() && operationModeFileWatcher != null) {
            return operationModeFileWatcher.getCurrentOperationMode();
        }
    }
    return operationMode;
}

private boolean canReadOperationModeFromFile() {
    return type.equals("cloud_internal");
}
private volatile OperationModeFileWatcher operationModeFileWatcher;

/**
 * Sets the operation mode file watcher for the license and initializes the
 * file watcher when the license type allows to override operation mode from file
 */
public synchronized void setOperationModeFileWatcher(final OperationModeFileWatcher operationModeFileWatcher) {
    this.operationModeFileWatcher = operationModeFileWatcher;
    if (canReadOperationModeFromFile()) {
        this.operationModeFileWatcher.init();
    }
}

/**
 * Removes operation mode file watcher, so unused license objects can be gc'ed
 */
public synchronized void removeOperationModeFileWatcher() {
    this.operationModeFileWatcher = null;
}

/**
 * @return the current license’s status
 */
public Status status() {
    long now = System.currentTimeMillis();
    if (issueDate > now) {
        return Status.INVALID;
    } else if (expiryDate < now) {
        return Status.EXPIRED;
    } else {
        return Status.ACTIVE;
    }
}

private void validate() {
    if (issuer == null) {
        throw new IllegalStateException("issuer can not be null");
    } else if (issuedTo == null) {
        throw new IllegalStateException("issuedTo can not be null");
    } else if (issueDate == -1) {
        throw new IllegalStateException("issueDate has to be set");
    } else if (type == null) {
        throw new IllegalStateException("type can not be null");
    } else if (subscriptionType == null && version == VERSION_START) {
        throw new IllegalStateException("subscriptionType can not be null");
    } else if (uid == null) {
        throw new IllegalStateException("uid can not be null");
    }
}
throw new IllegalStateException("uid can not be null");
} else if (feature == null && version == VERSION_START) {
    throw new IllegalStateException("feature can not be null");
} else if (maxNodes == -1) {
    throw new IllegalStateException("maxNodes has to be set");
} else if (expiryDate == -1) {
    throw new IllegalStateException("expiryDate has to be set");
} else if (expiryDate == LicenseService.BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS
    && "basic".equals(type) == false) {
    throw new IllegalStateException("only basic licenses are allowed to have no expiration");
}
}

public static License readLicense(StreamInput in) throws IOException {
    int version = in.readVInt(); // Version for future extensibility
    if (version > VERSION_CURRENT) {
        throw new ElasticsearchException("Unknown license version found, please upgrade all nodes to the latest
            elasticsearch-license" +
            " plugin");
    }
    Builder builder = builder();
    builder.version(version);
    builder.uid(in.readString());
    builder.type(in.readString());
    if (version == VERSION_START) {
        builder.subscriptionType(in.readString());
    }
    builder.issueDate(in.readLong());
    if (version == VERSION_START) {
        builder.feature(in.readString());
    }
    builder.expiryDate(in.readLong());
    builder.maxNodes(in.readInt());
    builder.issuedTo(in.readString());
    builder.issuer(in.readString());
    builder.signature(in.readOptionalString());
    if (version >= VERSION_START_DATE) {
        builder.startDate(in.readLong());
    }
    return builder.build();
}

public void writeTo(StreamOutput out) throws IOException {
    out.writeVInt(version);
    out.writeString(uid);
    out.writeString(type);
    out.writeString(subscriptionType);
    if (version == VERSION_START) {
        out.writeString(type);
    }
    out.writeString(subscriptionType);
    if (version >= VERSION_START_DATE) {
        out.writeString(startDate);
    }
}
out.writeLong(issueDate);
if (version == VERSION_START) {
    out.writeString(feature);
}
out.writeLong(expiryDate);
out.writeInt(maxNodes);
out.writeString(issuedTo);
out.writeString(issuer);
out.writeStringOptional(signature);
if (version >= VERSION_START_DATE) {
    out.writeLong(startDate);
}

@Override
public String toString() {
    try {
        final XContentBuilder builder = XContentFactory.jsonBuilder();
        toXContent(builder, ToXContent.EMPTY_PARAMS);
        return Strings.toString(builder);
    } catch (IOException e) {
        return "";
    }
}

@Override
public XContentBuilder toXContent(XContentBuilder builder, Params params) throws IOException {
    builder.startObject();
toInnerXContent(builder, params);
    builder.endObject();
    return builder;
}

public XContentBuilder toInnerXContent(XContentBuilder builder, Params params) throws IOException {
    boolean licenseSpecMode = params.paramAsBoolean(LICENSE_SPEC_VIEW_MODE, false);
    boolean restViewMode = params.paramAsBoolean(REST_VIEW_MODE, false);
    boolean previouslyHumanReadable = builder.humanReadable();
    if (licenseSpecMode && restViewMode) {
        throw new IllegalArgumentException("can have either " + REST_VIEW_MODE + " or " + LICENSE_SPEC_VIEW_MODE);
    } else if (restViewMode) {
        if (!previouslyHumanReadable) {
            builder.humanReadable(true);
        }
    }
    final int version;
    if (params.param(LICENSE_VERSION_MODE) != null && restViewMode) {
version = Integer.parseInt(params.param(LICENSE_VERSION_MODE));
} else {
    version = this.version;
}
if (restViewMode) {
    builder.field(Fields.STATUS, status().label());
}
builder.field(Fields.UID, uid);
builder.field(Fields.TYPE, type);
if (version == VERSION_START) {
    builder.field(Fields.SUBSCRIPTION_TYPE, subscriptionType);
}
builder.timeField(Fields.ISSUE_DATE_IN_MILLIS, Fields.ISSUE_DATE, issueDate);
if (version == VERSION_START) {
    builder.field(Fields.FEATURE, feature);
}
if (expiryDate != LicenseService.BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS) {
    builder.timeField(Fields.EXPIRY_DATE_IN_MILLIS, Fields.EXPIRY_DATE, expiryDate);
}
builder.field(Fields.MAX_NODES, maxNodes);
bUILDER.field(Fields.ISSUED_TO, issuedTo);
bUILDER.field(Fields.ISSUER, issuer);
if (!licenseSpecMode && !restViewMode && signature != null) {
    builder.field(Fields.SIGNATURE, signature);
}
if (restViewMode) {
    builder.humanReadable(previouslyHumanReadable);
}
if (version >= VERSION_START_DATE) {
    builder.timeField(Fields.START_DATE_IN_MILLIS, Fields.START_DATE, startDate);
}
return builder;

public static License fromXContent(XContentParser parser) throws IOException {
    Builder builder = new Builder();
    XContentParser.Token token;
    while ((token = parser.nextToken()) != XContentParser.Token.END_OBJECT) {
        if (token == XContentParser.Token.FIELD_NAME) {
            String currentFieldName = parser.currentName();
            token = parser.nextToken();
            if (token.isValue()) {
                if (Fields.UID.equals(currentFieldName)) {
                    builder.uid(parser.text());
                } else if (Fields.TYPE.equals(currentFieldName)) {
                    builder.type(parser.text());
                } else if (Fields.SUBSCRIPTION_TYPE.equals(currentFieldName)) {
                    builder.subscriptionType(parser.text());
                } else if (Fields.SUBSCRIPTION_TYPE.equals(currentFieldName)) {
                    builder.type(parser.text());
                }
            }
        }
    }
    return builder;
}
builder.subscriptionType(parser.text());
} else if (Fields.ISSUE_DATE.equals(currentFieldName)) {
    builder.issueDate(parseDate(parser, "issue", false));
} else if (Fields.ISSUE_DATE_IN_MILLIS.equals(currentFieldName)) {
    builder.issueDate(parser.longValue());
} else if (Fields.FEATURE.equals(currentFieldName)) {
    builder.feature(parser.text());
} else if (Fields.EXPIRY_DATE.equals(currentFieldName)) {
    builder.expiryDate(parseDate(parser, "expiration", true));
} else if (Fields.EXPIRY_DATE_IN_MILLIS.equals(currentFieldName)) {
    builder.expiryDate(parser.longValue());
} else if (Fields.START_DATE.equals(currentFieldName)) {
    builder.startDate(parseDate(parser, "start", false));
} else if (Fields.START_DATE_IN_MILLIS.equals(currentFieldName)) {
    builder.startDate(parser.longValue());
} else if (Fields.MAX_NODES.equals(currentFieldName)) {
    builder.maxNodes(parser.intValue());
} else if (Fields.ISSUED_TO.equals(currentFieldName)) {
    builder.issuedTo(parser.text());
} else if (Fields.ISSUER.equals(currentFieldName)) {
    builder.issuer(parser.text());
} else if (Fields.SIGNATURE.equals(currentFieldName)) {
    builder.signature(parser.text());
} else if (Fields.VERSION.equals(currentFieldName)) {
    builder.version(parser.intValue());
}

// Ignore unknown elements - might be new version of license
} else if (token == XContentParser.Token.START_ARRAY) {
    // It was probably created by newer version - ignoring
    parser.skipChildren();
} else if (token == XContentParser.Token.START_OBJECT) {
    // It was probably created by newer version - ignoring
    parser.skipChildren();
}
}

// not a license spec
if (builder.signature != null) {
    byte[] signatureBytes = Base64.getDecoder().decode(builder.signature);
    ByteBuffer byteBuffer = ByteBuffer.wrap(signatureBytes);
    int version = byteBuffer.getInt();
    // we take the absolute version, because negative versions
    // mean that the license was generated by the cluster (see TrialLicense)
    // and positive version means that the license was signed
    if (version < 0) {
        version *= -1;
    }
    if (version == 0) {
throw new ElasticsearchException("malformed signature for license "+ builder.uid + "]"); 
} else if (version > VERSION_CURRENT) {
    throw new ElasticsearchException("Unknown license version found, please upgrade all nodes to the latest
    " +
    "elasticsearch-license plugin");
}
// signature version is the source of truth
builder.version(version);
return builder.build();

/**
 * Returns true if the license was auto-generated (by license plugin),
 * false otherwise
 */
public static boolean isAutoGeneratedLicense(String signature) {
    try {
        byte[] signatureBytes = Base64.getDecoder().decode(signature);
        ByteBuffer byteBuffer = ByteBuffer.wrap(signatureBytes);
        return byteBuffer.getInt() < 0;
    } catch (IllegalArgumentException e) {
        throw new IllegalStateException(e);
    }
}

public static License fromSource(BytesReference bytes, XContentType xContentType) throws IOException {
    if (bytes == null || bytes.length() == 0) {
        throw new ElasticsearchParseException("failed to parse license - no content provided");
    }
    if (xContentType == null) {
        throw new ElasticsearchParseException("failed to parse license - no content-type provided");
    }
    // EMPTY is safe here because we don't call namedObject
    try (InputStream byteStream = bytes.streamInput();
         XContentParser parser = xContentType.xContent()
             .createParser(NamedXContentRegistry.EMPTY, LoggingDeprecationHandler.INSTANCE, byteStream)) {
        License license = null;
        if (parser.nextToken() == XContentParser.Token.START_OBJECT) {
            if (parser.nextToken() == XContentParser.Token.FIELD_NAME) {
                String currentFieldName = parser.currentName();
                if (Fields.LICENSES.equals(currentFieldName)) {
                    final ListLICENSE pre20Licenses = new ArrayList<>();
                    if (parser.nextToken() == XContentParser.Token.START_ARRAY) {
                        while (parser.nextToken() != XContentParser.Token.END_ARRAY) {
                            pre20Licenses.add(License.fromXContent(parser));
                        }
                    }
                }
            }
        }
    }
}
// take the latest issued unexpired license
CollectionUtil.timSort(pre20Licenses, LATEST_ISSUE_DATE_FIRST);
long now = System.currentTimeMillis();
for (License oldLicense : pre20Licenses) {
    if (oldLicense.expiryDate() > now) {
        license = oldLicense;
        break;
    }
}
if (license == null && !pre20Licenses.isEmpty()) {
    license = pre20Licenses.get(0);
}
else {
    throw new ElasticsearchParseException("failed to parse licenses expected an array of licenses");
}
else if (Fields.LICENSE.equals(currentFieldName)) {
    license = License.fromXContent(parser);
}
// Ignore all other fields - might be created with new version
else {
    throw new ElasticsearchParseException("failed to parse licenses expected field");
}
else {
    throw new ElasticsearchParseException("failed to parse licenses expected start object");
}
return license;
}

@Override
public boolean equals(Object o) {
    if (this == o) return true;
    if (o == null || getClass() != o.getClass()) return false;
    License license = (License) o;
    if (issueDate != license.issueDate) return false;
    if (expiryDate != license.expiryDate) return false;
    if (startDate != license.startDate) return false;
    if (maxNodes != license.maxNodes) return false;
    if (version != license.version) return false;
    if (uid != null ? !uid.equals(license.uid) : license.uid != null) return false;
    if (issuer != null ? !issuer.equals(license.issuer) : license.issuer != null) return false;
    if (issuedTo != null ? !issuedTo.equals(license.issuedTo) : license.issuedTo != null) return false;
    if (type != null ? !type.equals(license.type) : license.type != null) return false;
    if (subscriptionType != null ? !subscriptionType.equals(license.subscriptionType) : license.subscriptionType != null)
        return false;
    return false;
}
if (feature != null ? feature.equals(license.feature) : license.feature != null) return false;
return !(signature != null ? !signature.equals(license.signature) : license.signature != null);
}

@Override
public int hashCode() {
    int result = uid != null ? uid.hashCode() : 0;
    result = 31 * result + (issuer != null ? issuer.hashCode() : 0);
    result = 31 * result + (issuedTo != null ? issuedTo.hashCode() : 0);
    result = 31 * result + (int) (issueDate ^ (issueDate >>> 32));
    result = 31 * result + (type != null ? type.hashCode() : 0);
    result = 31 * result + (subscriptionType != null ? subscriptionType.hashCode() : 0);
    result = 31 * result + (feature != null ? feature.hashCode() : 0);
    result = 31 * result + (signature != null ? signature.hashCode() : 0);
    result = 31 * result + (int) (expiryDate ^ (expiryDate >>> 32));
    result = 31 * result + (int) (startDate ^ (startDate >>> 32));
    result = 31 * result + maxNodes;
    result = 31 * result + version;
    return result;
}

public static final class Fields {
    public static final String STATUS = "status";
    public static final String UID = "uid";
    public static final String TYPE = "type";
    public static final String SUBSCRIPTION_TYPE = "subscription_type";
    public static final String ISSUE_DATE_IN_MILLIS = "issue_date_in_millis";
    public static final String ISSUE_DATE = "issue_date";
    public static final String FEATURE = "feature";
    public static final String EXPIRY_DATE_IN_MILLIS = "expiry_date_in_millis";
    public static final String EXPIRY_DATE = "expiry_date";
    public static final String START_DATE_IN_MILLIS = "start_date_in_millis";
    public static final String START_DATE = "start_date";
    public static final String MAX_NODES = "max_nodes";
    public static final String ISSUED_TO = "issued_to";
    public static final String ISSUER = "issuer";
    public static final String VERSION = "version";
    public static final String SIGNATURE = "signature";

    public static final String LICENSES = "licenses";
    public static final String LICENSE = "license";

    }

private static long parseDate(XContentParser parser, String description, boolean endOfTheDay) throws IOException {
    if (parser.currentToken() == XContentParser.Token.VALUE_NUMBER) {

return parser.longValue();
} else {
    try {
        if (endOfTheDay) {
            return DateUtils.endOfDay(parser.text());
        } else {
            return DateUtils.beginningOfDay(parser.text());
        }
    } catch (IllegalArgumentException ex) {
        throw new ElasticsearchParseException("invalid " + description + " date format " + parser.text());
    }
}
}

public static Builder builder() {
    return new Builder();
}

public static class Builder {
    private int version = License.VERSION_CURRENT;
    private String uid;
    private String issuer;
    private String issuedTo;
    private long issueDate = -1;
    private String type;
    private String subscriptionType;
    private String feature;
    private String signature;
    private long expiryDate = -1;
    private long startDate = -1;
    private int maxNodes = -1;

    public Builder uid(String uid) {
        this.uid = uid;
        return this;
    }

    public Builder version(int version) {
        this.version = version;
        return this;
    }

    public Builder issuer(String issuer) {
        this.issuer = issuer;
        return this;
    }

    public Builder issuedTo(String issuedTo) {

this.issuedTo = issuedTo;
return this;
}

public Builder issueDate(long issueDate) {
this.issueDate = issueDate;
return this;
}

public Builder type(String type) {
this.type = type;
return this;
}

public Builder subscriptionType(String subscriptionType) {
this.subscriptionType = subscriptionType;
return this;
}

public Builder feature(String feature) {
this.feature = feature;
return this;
}

public Builder expiryDate(long expiryDate) {
this.expiryDate = expiryDate;
return this;
}

public Builder maxNodes(int maxNodes) {
this.maxNodes = maxNodes;
return this;
}

public Builder signature(String signature) {
if (signature != null) {
this.signature = signature;
}
return this;
}

public Builder startDate(long startDate) {
this.startDate = startDate;
return this;
}

public Builder fromLicenseSpec(License license, String signature) {
return uid(license.uid())
.version(license.version())
.issuedTo(license.issuedTo())
.issueDate(license.issueDate())
.startDate(license.startDate())
.type(license.type())
.subscriptionType(license.subscriptionType)
.feature(license.feature)
.maxNodes(license.maxNodes())
.expiryDate(license.expiryDate())
.issuer(license.issuer())
.signature(signature);
}

/**
 * Returns a builder that converts pre 2.0 licenses
 * to the new license format
 */
public Builder fromPre20LicenseSpec(License pre20License) {
    return uid(pre20License.uid())
        .issuedTo(pre20License.issuedTo())
        .issueDate(pre20License.issueDate())
        .maxNodes(pre20License.maxNodes())
        .expiryDate(pre20License.expiryDate());
}

public License build() {
    return new License(version, uid, issuer, issuedTo, issueDate, type,
            subscriptionType, feature, signature, expiryDate, maxNodes, startDate);
}

public Builder validate() {
    if (issuer == null) {
        throw new IllegalStateException("issuer can not be null");
    } else if (issuedTo == null) {
        throw new IllegalStateException("issuedTo can not be null");
    } else if (issueDate == -1) {
        throw new IllegalStateException("issueDate has to be set");
    } else if (type == null) {
        throw new IllegalStateException("type can not be null");
    } else if (uid == null) {
        throw new IllegalStateException("uid can not be null");
    } else if (signature == null) {
        throw new IllegalStateException("signature can not be null");
    } else if (maxNodes == -1) {
        throw new IllegalStateException("maxNodes has to be set");
    } else if (expiryDate == -1) {
        throw new IllegalStateException("expiryDate has to be set");
    }
}
public enum Status {
    ACTIVE("active"),
    INVALID("invalid"),
    EXPIRED("expired");

    private final String label;

    Status(String label) {
        this.label = label;
    }

    public String label() {
        return label;
    }

    public void writeTo(StreamOutput out) throws IOException {
        out.writeString(label);
    }

    public static Status readFrom(StreamInput in) throws IOException {
        String value = in.readString();
        switch (value) {
            case "active":
                return ACTIVE;
            case "invalid":
                return INVALID;
            case "expired":
                return EXPIRED;
            default:
                throw new IllegalArgumentException("unknown license status [" + value + "]");
        }
    }
}

/**
 * Returns <code>true</code> iff the license is a production license
 */
public boolean isProductionLicense() {
    switch (operationMode()) {
        case MISSING:
        case TRIAL:
        case BASIC:
            return false;
        case PRODUCTION:
            return true;
    }
}
case STANDARD:
case GOLD:
case PLATINUM:
    return true;
default:
    throw new AssertionError("unknown operation mode: " + operationMode());
*/
package org.elasticsearch.license;

import org.elasticsearch.ElasticsearchException;
import org.elasticsearch.action.ActionListener;
import org.elasticsearch.action.support.ActionFilters;
import org.elasticsearch.action.support.master.TransportMasterNodeReadAction;
import org.elasticsearch.cluster.ClusterState;
import org.elasticsearch.cluster.block.ClusterBlockException;
import org.elasticsearch.cluster.block.ClusterBlockLevel;
import org.elasticsearch.cluster.metadata.IndexNameExpressionResolver;
import org.elasticsearch.cluster.service.ClusterService;
import org.elasticsearch.common.inject.Inject;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.threadpool.ThreadPool;
import org.elasticsearch.transport.TransportService;

public class TransportGetLicenseAction extends TransportMasterNodeReadAction<GetLicenseRequest,
GetLicenseResponse> {

    private final LicenseService licenseService;

    @Inject
    public TransportGetLicenseAction(Settings settings, TransportService transportService,
    ClusterService clusterService, LicenseService licenseService, ThreadPool threadPool,
    ActionFilters actionFilters, IndexNameExpressionResolver indexNameExpressionResolver) {
        super(settings, GetLicenseAction.NAME, transportService, clusterService, threadPool,
        actionFilters, GetLicenseRequest::new, indexNameExpressionResolver);
        this.licenseService = licenseService;
    }

    @Override
    protected String executor() {
return ThreadPool.Names.MANAGEMENT;
}

@override
protected GetLicenseResponse newResponse() {
    return new GetLicenseResponse();
}

@override
protected ClusterBlockException checkBlock(GetLicenseRequest request, ClusterState state) {
    return state.blocks().globalBlockedException(ClusterBlockLevel.METADATA_READ);
}

@override
protected void masterOperation(final GetLicenseRequest request, ClusterState state,
final ActionListener<GetLicenseResponse> listener) throws ElasticsearchException {
    listener.onResponse(new GetLicenseResponse(licenseService.getLicense()));
}

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 * or more contributor license agreements. Licensed under the Elastic License;
 * you may not use this file except in compliance with the Elastic License.
 */
package org.elasticsearch.license;

import org.apache.logging.log4j.Logger;
import org.apache.logging.log4j.message.ParameterizedMessage;
import org.apache.logging.log4j.util.Supplier;
import org.elasticsearch.Version;
import org.elasticsearch.cluster.ClusterState;
import org.elasticsearch.cluster.ClusterStateUpdateTask;
import org.elasticsearch.cluster.metadata.MetaData;
import org.elasticsearch.cluster.service.ClusterService;
import org.elasticsearch.common.Nullable;
import org.elasticsearch.common.logging.Loggers;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.xpack.core.XPackPlugin;
import java.time.Clock;
import java.util.UUID;

public class StartupSelfGeneratedLicenseTask extends ClusterStateUpdateTask {

    /**
     * Max number of nodes licensed by generated trial license
     */
    private int selfGeneratedLicenseMaxNodes = 1000;
private final Settings settings;
private final Clock clock;
private final ClusterService clusterService;
private final Logger logger;

public StartupSelfGeneratedLicenseTask(Settings settings, Clock clock, ClusterService clusterService) {
    this.settings = settings;
    this.clock = clock;
    this.clusterService = clusterService;
    this.logger = Loggers.getLogger(getClass(), settings);
}

@Override
public void clusterStateProcessed(String source, ClusterState oldState, ClusterState newState) {
    LicensesMetaData licensesMetaData = newState.metaData().custom(LicensesMetaData.TYPE);
    if (logger.isDebugEnabled()) {
        logger.debug("registered self generated license: {}", licensesMetaData);
    }
}

@Override
public ClusterState execute(ClusterState currentState) throws Exception {
    XPackPlugin.checkReadyForXPackCustomMetadata(currentState);
    final MetaData metaData = currentState.metaData();
    final LicensesMetaData currentLicensesMetaData = metaData.custom(LicensesMetaData.TYPE);
    // do not generate a license if any license is present
    if (currentLicensesMetaData == null) {
        String type = LicenseService.SELF_GENERATED_LICENSE_TYPE.get(settings);
        if (SelfGeneratedLicense.validSelfGeneratedType(type) == false) {
            throw new IllegalArgumentException("Illegal self generated license type [" + type + "]"). Must be trial or basic.");
        }
        return updateWithLicense(currentState, type);
    } else if (LicenseUtils.signatureNeedsUpdate(currentLicensesMetaData.getLicense(), currentState.nodes())) {
        return updateLicenseSignature(currentState, currentLicensesMetaData);
    } else if (LicenseUtils.licenseNeedsExtended(currentLicensesMetaData.getLicense())) {
        return extendBasic(currentState, currentLicensesMetaData);
    } else {
        return currentState;
    }
}

private ClusterState updateLicenseSignature(ClusterState currentState, LicensesMetaData currentLicenseMetaData) {
    License license = currentLicenseMetaData.getLicense();
    MetaData.Builder mdBuilder = MetaData.builder(currentState.metaData());
    String type = license.type();
long issueDate = license.issueDate();
long expiryDate = license.expiryDate();

// extend the basic license expiration date if needed since extendBasic will not be called now
if ("basic".equals(type) & & expiryDate !=
LicenseService.BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS) {
    expiryDate = LicenseService.BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS;
}
License.Builder specBuilder = License.builder()
    .uid(license.uid())
    .issuedTo(license.issuedTo())
    .maxNodes(selfGeneratedLicenseMaxNodes)
    .issueDate(issueDate)
    .type(type)
    .expiryDate(expiryDate);
License selfGeneratedLicense = SelfGeneratedLicense.create(specBuilder, currentState.nodes());
Version trialVersion = currentLicenseMetaData.getMostRecentTrialVersion();
LicensesMetaData newLicenseMetadata = new LicensesMetaData(selfGeneratedLicense, trialVersion);
mdBuilder.putCustom(LicensesMetaData.TYPE, newLicenseMetadata);
logger.info("Updating existing license to the new version.\n
Old license:
 {}

New license:
{}", license, newLicenseMetadata.getLicense());
return ClusterState.builder(currentState).metaData(mdBuilder).build();
}

@override
public void onFailure(String source, Nullable Exception e) {
    logger.error((Supplier<?>) () -> new ParameterizedMessage("unexpected failure during [{}]", source), e);
}

private ClusterState extendBasic(ClusterState currentState, LicensesMetaData currentLicenseMetadata) {
    License license = currentLicenseMetadata.getLicense();
    MetaData.Builder mdBuilder = MetaData.builder(currentState.metaData());
    LicensesMetaData newLicenseMetadata = createBasicLicenseFromExistingLicense(currentLicenseMetadata);
    mdBuilder.putCustom(LicensesMetaData.TYPE, newLicenseMetadata);
    logger.info("Existing basic license has an expiration. Basic licenses no longer expire."
                 + "Regenerating license.\n
Old license:
 {}

New license:
{}", license, newLicenseMetadata.getLicense());
return ClusterState.builder(currentState).metaData(mdBuilder).build();
}

private LicensesMetaData createBasicLicenseFromExistingLicense(LicensesMetaData currentLicenseMetadata) {
    License currentLicense = currentLicenseMetadata.getLicense();
    License.Builder specBuilder = License.builder()
        .uid(currentLicense.uid())
        .issuedTo(currentLicense.issuedTo())
        .maxNodes(selfGeneratedLicenseMaxNodes)
        .issueDate(currentLicense.issueDate())
        .type("basic")
        .expiryDate(LicenseService.BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS);
License selfGeneratedLicense = SelfGeneratedLicense.create(specBuilder, currentLicense.version());
Version trialVersion = currentLicenseMetadata.getMostRecentTrialVersion();
return new LicensesMetaData(selfGeneratedLicense, trialVersion);
}

private ClusterState updateWithLicense(ClusterState currentState, String type) {
    long issueDate = clock.millis();
    MetaData.Builder mdBuilder = MetaData.builder(currentState.metaData());
    long expiryDate;
    if ("basic".equals(type)) {
        expiryDate = LicenseService.BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS;
    } else {
        expiryDate = issueDate +
        LicenseService.NON_BASIC_SELF_GENERATED_LICENSE_DURATION.getMillis();
    }
    License.Builder specBuilder = License.builder()
        .uid(UUID.randomUUID().toString())
        .issuedTo(clusterService.getClusterName().value())
        .maxNodes(selfGeneratedLicenseMaxNodes)
        .issueDate(issueDate)
        .type(type)
        .issueDate(expiryDate);
    License selfGeneratedLicense = SelfGeneratedLicense.create(specBuilder, currentState.nodes());
    LicensesMetaData licensesMetaData;
    if ("trial".equals(type)) {
        licensesMetaData = new LicensesMetaData(selfGeneratedLicense, Version.CURRENT);
    } else {
        licensesMetaData = new LicensesMetaData(selfGeneratedLicense, null);
    }
    mdBuilder.putCustom(LicensesMetaData.TYPE, licensesMetaData);
    return ClusterState.builder(currentState).metaData(mdBuilder).build();
}
*/
*/
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* or more contributor license agreements. Licensed under the Elastic License;
* you may not use this file except in compliance with the Elastic License.
*/
package org.elasticsearch.license;

import org.elasticsearch.Version;
import org.elasticsearch.cluster.AbstractNamedDiffable;
import org.elasticsearch.cluster.MergableCustomMetaData;
import org.elasticsearch.cluster.NamedDiff;
import org.elasticsearch.cluster.metadata.MetaData;
import org.elasticsearch.common.Nullable;
import org.elasticsearch.common.io.stream.StreamInput;
import org.elasticsearch.common.io.stream.StreamOutput;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.common.xcontent.XContentParser;
import org.elasticsearch.license.License.OperationMode;
import org.elasticsearch.xpack.core.XPackPlugin;
import java.io.IOException;
import java.util.EnumSet;

/**
 * Contains metadata about registered licenses
 */
public class LicensesMetaData extends AbstractNamedDiffable<MetaData.Custom> implements
XPackPlugin.XPackMetaDataCustom,
MergableCustomMetaData<LicensesMetaData> {

public static final String TYPE = "licenses";

/**
 * When license is explicitly removed by a user, LICENSE_TOMBSTONE
 * is used as a placeholder in the license metadata. This enables
 * us to distinguish between the scenario when a cluster never
 * had a license (null) and when a license was removed explicitly
 * (LICENSE_TOMBSTONE).
 * We rely on this to decide whether to generate a unsigned trial
 * license or not. we should only generate a license if no license
 * ever existed in the cluster state
 */
public static final License LICENSE_TOMBSTONE = License.builder()
    .type("trial")
    .issuer("elasticsearch")
    .uid("TOMBSTONE")
    .issuedTo(""")
    .maxNodes(0)
    .issueDate(0)
    .expiryDate(0)
    .build();

private License license;

// This field describes the version of x-pack for which this cluster has exercised a trial. If the field
// is null, then no trial has been exercised. We keep the version to leave open the possibility that we
// may eventually allow a cluster to exercise a trial every time they upgrade to a new major version.
@Nullable
private Version trialVersion;

LicensesMetaData(License license, Version trialVersion) {
    this.license = license;
    this.trialVersion = trialVersion;
}
public License getLicense() {
return license;
}
boolean isEligibleForTrial() {
if (trialVersion == null) {
return true;
}
return Version.CURRENT.major > trialVersion.major;
}
Version getMostRecentTrialVersion() {
return trialVersion;
}
@Override
public String toString() {
return "LicensesMetaData{" +
"license=" + license +
", trialVersion=" + trialVersion +
'}';
}
@Override
public boolean equals(Object o) {
if (this == o) return true;
if (o == null || getClass() != o.getClass()) return false;
LicensesMetaData that = (LicensesMetaData) o;
if (license != null ? !license.equals(that.license) : that.license != null) return false;
return trialVersion != null ? trialVersion.equals(that.trialVersion) : that.trialVersion == null;
}
@Override
public int hashCode() {
int result = license != null ? license.hashCode() : 0;
result = 31 * result + (trialVersion != null ? trialVersion.hashCode() : 0);
return result;
}
@Override
public String getWriteableName() {
return TYPE;
}

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@Override
public Version getMinimalSupportedVersion() {
    return Version.CURRENT.minimumCompatibilityVersion();
}

@Override
public EnumSet<MetaData.XContentContext> context() {
    return EnumSet.of(MetaData.XContentContext.GATEWAY);
}

public static LicensesMetaData fromXContent(XContentParser parser) throws IOException {
    License license = LICENSE_TOMBSTONE;
    Version trialLicense = null;
    while ((token = parser.nextToken()) != XContentParser.Token.END_OBJECT) {
        if (token == XContentParser.Token.FIELD_NAME) {
            String fieldName = parser.currentName();
            if (fieldName != null) {
                if (fieldName.equals(Fields.LICENSE)) {
                    token = parser.nextToken();
                    if (token == XContentParser.Token.START_OBJECT) {
                        license = License.fromXContent(parser);
                    } else if (token == XContentParser.Token.VALUE_NULL) {
                        license = LICENSE_TOMBSTONE;
                    }
                } else if (fieldName.equals(Fields.TRIAL_LICENSE)) {
                    parser.nextToken();
                    trialLicense = Version.fromString(parser.text());
                }
            }
        }
    }
    return new LicensesMetaData(license, trialLicense);
}

@override
public XContentBuilder toXContent(XContentBuilder builder, Params params) throws IOException {
    if (license == LICENSE_TOMBSTONE) {
        builder.nullField(Fields.LICENSE);
    } else {
        builder.startObject(Fields.LICENSE);
        license.toInnerXContent(builder, params);
        builder.endObject();
    }
    if (trialVersion != null) {
        builder.field(Fields.TRIAL_LICENSE, trialVersion.toString());
    }
    return builder;
@Override
public void writeTo(StreamOutput streamOutput) throws IOException {
    if (license == LICENSE_TOMBSTONE) {
        streamOutput.writeBoolean(false); // no license
    } else {
        streamOutput.writeBoolean(true); // has a license
        license.writeTo(streamOutput);
    }
    if (streamOutput.getVersion().onOrAfter(Version.V_6_1_0)) {
        if (trialVersion == null) {
            streamOutput.writeBoolean(false);
        } else {
            streamOutput.writeBoolean(true);
            Version.writeVersion(trialVersion, streamOutput);
        }
    }
}

public LicensesMetaData(StreamInput streamInput) throws IOException {
    if (streamInput.readBoolean()) {
        license = License.readLicense(streamInput);
    } else {
        license = LICENSE_TOMBSTONE;
    }
    if (streamInput.getVersion().onOrAfter(Version.V_6_1_0)) {
        boolean hasExercisedTrial = streamInput.readBoolean();
        if (hasExercisedTrial) {
            this.trialVersion = Version.readVersion(streamInput);
        }
    }
}

public static NamedDiff<MetaData.Custom> readDiffFrom(StreamInput streamInput) throws IOException {
    return readDiffFrom(MetaData.Custom.class, TYPE, streamInput);
}

public static License extractLicense(LicensesMetaData licensesMetaData) {
    if (licensesMetaData != null) {
        License license = licensesMetaData.getLicense();
        if (license == LicensesMetaData.LICENSE_TOMBSTONE) {
            return null;
        } else {
            return license;
        }
    }
    return null;
}
@Override
public LicensesMetaData merge(LicensesMetaData other) {
    if (other.license == null) {
        return this;
    } else if (license == null
        || OperationMode.compare(other.license.operationMode(), license.operationMode()) > 0) {
        return other;
    }
    return this;
}

private static final class Fields {
    private static final String LICENSE = "license";
    private static final String TRIAL_LICENSE = "trial_license";
}

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 */

package org.elasticsearch.license;

import org.elasticsearch.action.ActionResponse;
import org.elasticsearch.common.io.stream.StreamInput;
import org.elasticsearch.common.io.stream.StreamOutput;
import java.io.IOException;

public class GetLicenseResponse extends ActionResponse {

    private License license;

    GetLicenseResponse() {
    }

    GetLicenseResponse(License license) {
        this.license = license;
    }

    public License license() {
        return license;
    }

    @Override
    public void readFrom(StreamInput in) throws IOException {

super.readFrom(in);
if (in.readBoolean()) {
    license = License.readLicense(in);
}
}

@Override
public void writeTo(StreamOutput out) throws IOException {
    super.writeTo(out);
    if (license == null) {
        out.writeBoolean(false);
    } else {
        out.writeBoolean(true);
        license.writeTo(out);
    }
}

package org.elasticsearch.license;

import org.elasticsearch.action.ActionListener;
import org.elasticsearch.action.support.ActionFilters;
import org.elasticsearch.action.support.master.TransportMasterNodeAction;
import org.elasticsearch.cluster.ClusterState;
import org.elasticsearch.cluster.block.ClusterBlockException;
import org.elasticsearch.cluster.block.ClusterBlockLevel;
import org.elasticsearch.cluster.metadata.IndexNameExpressionResolver;
import org.elasticsearch.cluster.service.ClusterService;
import org.elasticsearch.common.inject.Inject;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.threadpool.ThreadPool;
import org.elasticsearch.transport.TransportService;

public class TransportPostStartTrialAction extends TransportMasterNodeAction<PostStartTrialRequest,
PostStartTrialResponse> {

    private final LicenseService licenseService;

    @Inject
    public TransportPostStartTrialAction(Settings settings, TransportService transportService, ClusterService
clusterService,
            LicenseService licenseService, ThreadPool threadPool, ActionFilters actionFilters,
IndexNameExpressionResolver indexNameExpressionResolver) {


super(settings, PostStartTrialAction.NAME, transportService, clusterService, threadPool, actionFilters, 
indexNameExpressionResolver, PostStartTrialRequest::new);
this.licenseService = licenseService;
}

@Override
protected String executor() {
    return ThreadPool.Names.SAME;
}

@Override
protected PostStartTrialResponse newResponse() {
    return new PostStartTrialResponse();
}

@Override
protected void masterOperation(PostStartTrialRequest request, ClusterState state, 
ActionListener<PostStartTrialResponse> listener) throws Exception {
    licenseService.startTrialLicense(request, listener);
}

@Override
protected ClusterBlockException checkBlock(PostStartTrialRequest request, ClusterState state) {
    return state.blocks().globalBlockedException(ClusterBlockLevel.METADATA_WRITE);
}
}

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 */

package org.elasticsearch.license;

import org.elasticsearch.Version;
import org.elasticsearch.action.ActionRequestValidationException;
import org.elasticsearch.action.support.master.MasterNodeRequest;
import org.elasticsearch.common.io.stream.StreamInput;
import org.elasticsearch.common.io.stream.StreamOutput;
import java.io.IOException;

import java.io.IOException;

public class PostStartTrialRequest extends MasterNodeRequest<PostStartTrialRequest> {

    private boolean acknowledge = false;
    private String type;

    @Override
    public ActionRequestValidationException validate() {

        public class PostStartTrialRequest extends MasterNodeRequest<PostStartTrialRequest> {

            private boolean acknowledge = false;
            private String type;

            @Override
            public ActionRequestValidationException validate() {


public PostStartTrialRequest setType(String type) {
    this.type = type;
    return this;
}
	public String getType() {
	    return type;
}
	public PostStartTrialRequest acknowledge(boolean acknowledge) {
	    this.acknowledge = acknowledge;
    return this;
}
	public boolean isAcknowledged() {
	    return acknowledge;
}

@Override
public void readFrom(StreamInput in) throws IOException {
    super.readFrom(in);
    if (in.getVersion().onOrAfter(Version.V_6_3_0)) {
        type = in.readString();
        acknowledge = in.readBoolean();
    } else {
        type = "trial";
        acknowledge = true;
    }
}

@Override
public void writeTo(StreamOutput out) throws IOException {
    Version version = Version.V_6_3_0;
    if (out.getVersion().onOrAfter(version)) {
        super.writeTo(out);
        out.writeString(type);
        out.writeBoolean(acknowledge);
    } else {
        if ("trial".equals(type) == false) {
            throw new IllegalArgumentException("All nodes in cluster must be version [" + version + "] or newer to start trial with a different type than 'trial'. Attempting to write to " + "a node with version [" + out.getVersion() + "] with trial type [" + type + "].");
        } else if (acknowledge == false) {
            throw new IllegalArgumentException("Request must be acknowledged to send to a node with a version " + "prior to [" + version + "]. Attempting to send request to node with version [" + out.getVersion() + "] “
    }
}
"without acknowledgement.";
} else {
    super.writeTo(out);
}
}
}
}

/package org.elasticsearch.license;

import org.elasticsearch.action.support.master.AcknowledgedRequestBuilder;
import org.elasticsearch.client.ElasticsearchClient;
import org.elasticsearch.common.bytes.BytesReference;
import org.elasticsearch.common.xcontent.XContentType;

/**
 * Register license request builder
 */
public class PutLicenseRequestBuilder extends AcknowledgedRequestBuilder<
    PutLicenseRequest,
    PutLicenseResponse,
    PutLicenseRequestBuilder> {

    public PutLicenseRequestBuilder(ElasticsearchClient client) {
        this(client, PutLicenseAction.INSTANCE);
    }

    /**
     * Constructs register license request
     *
     * @param client elasticsearch client
     */
    public PutLicenseRequestBuilder(ElasticsearchClient client, PutLicenseAction action) {
        super(client, action, new PutLicenseRequest());
    }

    /**
     * Sets the license
     *
     * @param license license
     * @return this builder
     */
    public PutLicenseRequestBuilder setLicense(License license) {
        request.license(license);
        return this;
    }
public PutLicenseRequestBuilder setLicense(BytesReference licenseSource, XContentType xContentType) {
    request.license(licenseSource, xContentType);
    return this;
}

public PutLicenseRequestBuilder setAcknowledge(boolean acknowledge) {
    request.acknowledge(acknowledge);
    return this;
}

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 */
package org.elasticsearch.license;

import org.elasticsearch.action.ActionRequestValidationException;
import org.elasticsearch.action.support.master.MasterNodeReadRequest;
import org.elasticsearch.common.io.stream.StreamInput;
import java.io.IOException;

public class GetBasicStatusRequest extends MasterNodeReadRequest<GetBasicStatusRequest> {

    public GetBasicStatusRequest() {
    }

    public GetBasicStatusRequest(StreamInput in) throws IOException {
        super(in);
    }

    @Override
    public ActionRequestValidationException validate() {
        return null;
    }
}

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 */
package org.elasticsearch.license;

import org.elasticsearch.action.ActionListener;
import org.elasticsearch.action.support.ActionFilters;
import java.io.IOException;
import org.elasticsearch.action.support.master.TransportMasterNodeReadAction;
import org.elasticsearch.cluster.ClusterState;
import org.elasticsearch.cluster.cluster.block.ClusterBlockException;
import org.elasticsearch.cluster.cluster.block.ClusterBlockLevel;
import org.elasticsearch.cluster.cluster.metadata.IndexNameExpressionResolver;
import org.elasticsearch.cluster.cluster.service.ClusterService;
import org.elasticsearch.common.inject.Inject;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.threadpool.ThreadPool;
import org.elasticsearch.transport.TransportService;

public class TransportGetBasicStatusAction extends TransportMasterNodeReadAction<GetBasicStatusRequest,
GetBasicStatusResponse> {

@Inject
public TransportGetBasicStatusAction(Settings settings, TransportService transportService, ClusterService
clusterService,
        ThreadPool threadPool, ActionFilters actionFilters,
        IndexNameExpressionResolver indexNameExpressionResolver) {
    super(settings, GetBasicStatusAction.NAME, transportService, clusterService, threadPool, actionFilters,
        GetBasicStatusRequest::new, indexNameExpressionResolver);
}

@Override
protected String executor() {
    return ThreadPool.Names.SAME;
}

@Override
protected GetBasicStatusResponse newResponse() {
    return new GetBasicStatusResponse();
}

@Override
protected void masterOperation(GetBasicStatusRequest request, ClusterState state,
ActionListener<GetBasicStatusResponse> listener) throws Exception {
    LicensesMetaData licensesMetaData = state.metaData().custom(LicensesMetaData.TYPE);
    if (licensesMetaData == null) {
        listener.onResponse(new GetBasicStatusResponse(true));
    } else {
        License license = licensesMetaData.getLicense();
        listener.onResponse(new GetBasicStatusResponse(license == null || license.type().equals("basic") == false));
    }
}

@Override
protected ClusterBlockException checkBlock(GetBasicStatusRequest request, ClusterState state) {
}
return state.blocks().globalBlockedException(ClusterBlockLevel.METADATA_READ);
}
*/
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   */
package org.elasticsearch.license;
import org.elasticsearch.action.Action;
public class GetTrialStatusAction extends Action<GetTrialStatusResponse> {

   public static final GetTrialStatusAction INSTANCE = new GetTrialStatusAction();
   public static final String NAME = "cluster:admin/xpack/license/trial_status";

   private GetTrialStatusAction() {
      super(NAME);
   }

   @Override
   public GetTrialStatusResponse newResponse() {  
      return new GetTrialStatusResponse();
   }
}
*/
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   */
package org.elasticsearch.license;
import org.elasticsearch.action.ActionListener;
import org.elasticsearch.client.ElasticsearchClient;
public class LicensingClient {
   private final ElasticsearchClient client;

   public LicensingClient(ElasticsearchClient client) {
      this.client = client;
   }

   public PutLicenseRequestBuilder preparePutLicense(License license) {
      return new PutLicenseRequestBuilder(client).setLicense(license);
   }
}
public void putLicense(PutLicenseRequest request, ActionListener<PutLicenseResponse> listener) {
    client.execute(PutLicenseAction.INSTANCE, request, listener);
}

public GetLicenseRequestBuilder prepareGetLicense() {
    return new GetLicenseRequestBuilder(client);
}

public void getLicense(GetLicenseRequest request, ActionListener<GetLicenseResponse> listener) {
    client.execute(GetLicenseAction.INSTANCE, request, listener);
}

public DeleteLicenseRequestBuilder prepareDeleteLicense() {
    return new DeleteLicenseRequestBuilder(client);
}

public void deleteLicense(DeleteLicenseRequest request, ActionListener<DeleteLicenseResponse> listener) {
    client.execute(DeleteLicenseAction.INSTANCE, request, listener);
}

public PostStartTrialRequestBuilder preparePostStartTrial() {
    return new PostStartTrialRequestBuilder(client, PostStartTrialAction.INSTANCE);
}

public GetTrialStatusRequestBuilder prepareGetStartTrial() {
    return new GetTrialStatusRequestBuilder(client, GetTrialStatusAction.INSTANCE);
}

public void postStartTrial(PostStartTrialRequest request, ActionListener<PostStartTrialResponse> listener) {
    client.execute(PostStartTrialAction.INSTANCE, request, listener);
}

public void postStartBasic(PostStartBasicRequest request, ActionListener<PostStartBasicResponse> listener) {
    client.execute(PostStartBasicAction.INSTANCE, request, listener);
}

public PostStartBasicRequestBuilder preparePostStartBasic() {
    return new PostStartBasicRequestBuilder(client, PostStartBasicAction.INSTANCE);
}

public GetBasicStatusRequestBuilder prepareGetStartBasic() {
    return new GetBasicStatusRequestBuilder(client, GetBasicStatusAction.INSTANCE);
}

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package org.elasticsearch.license;

import org.elasticsearch.Version;
import org.elasticsearch.action.ActionResponse;
import org.elasticsearch.common.io.stream.StreamInput;
import org.elasticsearch.common.io.stream.StreamOutput;
import org.elasticsearch.rest.RestStatus;
import java.io.IOException;
import java.util.Collections;
import java.util.HashMap;
import java.util.Map;

class PostStartTrialResponse extends ActionResponse {

    // Nodes Prior to 6.3 did not have NEED_ACKNOWLEDGEMENT as part of status
    enum Pre63Status {
        UPGRADED_TO_TRIAL,
        TRIAL_ALREADY_ACTIVATED;
    }
    enum Status {
        UPGRADED_TO_TRIAL(true, null, RestStatus.OK),
        TRIAL_ALREADY_ACTIVATED(false, "Operation failed: Trial was already activated.",
        RestStatus.FORBIDDEN),
        NEED_ACKNOWLEDGEMENT(false,"Operation failed: Needs acknowledgement.", RestStatus.OK);

        private final boolean isTrialStarted;
        private final String errorMessage;
        private final RestStatus restStatus;

        Status(boolean isTrialStarted, String errorMessage, RestStatus restStatus) {
            this.isTrialStarted = isTrialStarted;
            this.errorMessage = errorMessage;
            this.restStatus = restStatus;
        }

        boolean isTrialStarted() {
            return isTrialStarted;
        }

        String getErrorMessage() {
            return errorMessage;
        }

        RestStatus getRestStatus() {
            return restStatus;
        }
    }
}
private Status status;
private Map<String, String[]> acknowledgeMessages;
private String acknowledgeMessage;

PostStartTrialResponse() {
}

PostStartTrialResponse(Status status) {
    this(status, Collections.emptyMap(), null);
}

PostStartTrialResponse(Status status, Map<String, String[]> acknowledgeMessages, String acknowledgeMessage) {
    this.status = status;
    this.acknowledgeMessages = acknowledgeMessages;
    this.acknowledgeMessage = acknowledgeMessage;
}

public Status getStatus() {
    return status;
}

@Override
public void readFrom(StreamInput in) throws IOException {
    status = in.readEnum(Status.class);
    if (in.getVersion().onOrAfter(Version.V_6_3_0)) {
        acknowledgeMessage = in.readOptionalString();
        int size = in.readVInt();
        Map<String, String[]> acknowledgeMessages = new HashMap<>(size);
        for (int i = 0; i < size; i++) {
            String feature = in.readString();
            int nMessages = in.readVInt();
            String[] messages = new String[nMessages];
            for (int j = 0; j < nMessages; j++) {
                messages[j] = in.readString();
            }
            acknowledgeMessages.put(feature, messages);
        }
        this.acknowledgeMessages = acknowledgeMessages;
    } else {
        this.acknowledgeMessages = Collections.emptyMap();
    }
}

@Override
public void writeTo(StreamOutput out) throws IOException {
    Version version = Version.V_6_3_0;
    if (out.getVersion().onOrAfter(version)) {
        out.writeEnum(status);
        out.writeOptionalString(acknowledgeMessage);
        out.writeVInt(acknowledgeMessages.size());
        for (Map.Entry<String, String[]> entry : acknowledgeMessages.entrySet()) {
            out.writeString(entry.getKey());
            out.writeVInt(entry.getValue().length);
            for (String message : entry.getValue()) {
                out.writeString(message);
            }
        } else {
            if (status == Status.UPGRADED_TO_TRIAL) {
                out.writeEnum(Pre63Status.UPGRADED_TO_TRIAL);
            } else if (status == Status.TRIAL_ALREADY_ACTIVATED) {
                out.writeEnum(Pre63Status.TRIAL_ALREADY_ACTIVATED);
            } else {
                throw new IllegalArgumentException("Starting trial on node with version "+Version.CURRENT+ " requires " +
                "acknowledgement parameter.");
            }
        }
    }
}

Map<String, String[]> getAcknowledgementMessages() {
    return acknowledgeMessages;
}

String getAcknowledgementMessage() {
    return acknowledgeMessage;
}

package org.elasticsearch.license;

import org.elasticsearch.action.ActionRequest;
import org.elasticsearch.action.ActionResponse;
import org.elasticsearch.cluster.NamedDiff;
import org.elasticsearch.cluster.metadata.IndexNameExpressionResolver;
import org.elasticsearch.cluster.metadata.MetaData;
import org.elasticsearch.cluster.node.DiscoveryNodes;
import org.elasticsearch.common.ParseField;
import org.elasticsearch.common.io.stream.NamedWriteableRegistry;
import org.elasticsearch.common.settings.ClusterSettings;
import org.elasticsearch.common.settings.IndexScopedSettings;
import org.elasticsearch.common.settings.Setting;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.settings.SettingsFilter;
import org.elasticsearch.common.xcontent.NamedXContentRegistry;
import org.elasticsearch.plugins.ActionPlugin;
import org.elasticsearch.rest.RestController;
import org.elasticsearch.rest.RestHandler;

import java.util.ArrayList;
import java.util.Arrays;
import java.util.Collections;
import java.util.List;
import java.util.function.Supplier;

public class Licensing implements ActionPlugin {

    public static final String NAME = "license";
    protected final Settings settings;

    // Until this is moved out to its own plugin (its currently in XPackPlugin.java, we need to make sure that any edits to this file
    // are also carried out in XPackClientPlugin.java
    public List<NamedWriteableRegistry.Entry> getNamedWriteables() {
        List<NamedWriteableRegistry.Entry> entries = new ArrayList<>();
        entries.add(new NamedWriteableRegistry.Entry(MetaData.Custom.class, LicensesMetaData.TYPE,
            LicensesMetaData::new));
        entries.add(new NamedWriteableRegistry.Entry(NamedDiff.class, LicensesMetaData.TYPE,
            LicensesMetaData::readDiffFrom));
        return entries;
    }

    // Until this is moved out to its own plugin (its currently in XPackPlugin.java, we need to make sure that any edits to this file
    // are also carried out in XPackClientPlugin.java
    public List<NamedXContentRegistry.Entry> getNamedXContent() {
        List<NamedXContentRegistry.Entry> entries = new ArrayList<>();
        // Metadata
        entries.add(new NamedXContentRegistry.Entry(MetaData.Custom.class, new
            ParseField(LicensesMetaData.TYPE),
            LicensesMetaData::fromXContent));
        return entries;
    }

    public Licensing(Settings settings) {
}
this.settings = settings;
}

@Override
public List<ActionHandler<? extends ActionRequest, ? extends ActionResponse>> getActions() {
    return Arrays.asList(new ActionHandler<>(PutLicenseAction.INSTANCE, TransportPutLicenseAction.class),
                        new ActionHandler<>(DeleteLicenseAction.INSTANCE, TransportDeleteLicenseAction.class),
                        new ActionHandler<>(PostStartTrialAction.INSTANCE, TransportPostStartTrialAction.class),
                        new ActionHandler<>(GetTrialStatusAction.INSTANCE, TransportGetTrialStatusAction.class),
                        new ActionHandler<>(PostStartBasicAction.INSTANCE, TransportPostStartBasicAction.class),
                        new ActionHandler<>(GetBasicStatusAction.INSTANCE, TransportGetBasicStatusAction.class));
}

@Override
public List<RestHandler> getRestHandlers(Settings settings, RestController restController, ClusterSettings
                                          clusterSettings,
                                          IndexScopedSettings indexScopedSettings, SettingsFilter settingsFilter, IndexNameExpressionResolver
                                          indexNameExpressionResolver,
                                          Supplier<DiscoveryNodes> nodesInCluster) {
    List<RestHandler> handlers = new ArrayList<>();
    handlers.add(new RestGetLicenseAction(settings, restController));
    handlers.add(new RestPutLicenseAction(settings, restController));
    handlers.add(new RestDeleteLicenseAction(settings, restController));
    handlers.add(new RestGetTrialStatus(settings, restController));
    handlers.add(new RestGetBasicStatus(settings, restController));
    handlers.add(new RestPostStartTrialLicense(settings, restController));
    handlers.add(new RestPostStartBasicLicense(settings, restController));
    return handlers;
}

// Until this is moved out to its own plugin (its currently in XPackPlugin.java, we need to make sure that any edits
to this file
// are also carried out in XPackClientPlugin.java
public List<Setting<?>> getSettings() {
    // TODO convert this wildcard to a real setting
    return Collections.singletonList(Setting.groupSetting("license.", Setting.Property.NodeScope));
}
*/
public class GetLicenseRequest extends MasterNodeReadRequest<GetLicenseRequest> {

    public GetLicenseRequest() {
        
    }

    public GetLicenseRequest(StreamInput in) throws IOException {
        super(in);
    }

    @Override
    public ActionRequestValidationException validate() {
        return null;
    }
}

package org.elasticsearch.xpack.core.security.authz.permission;

import org.apache.lucene.index.DirectoryReader;
import org.apache.lucene.util.Accountable;
import org.apache.lucene.util.RamUsageEstimator;
import org.apache.lucene.util.automaton.Automata;
import org.apache.lucene.util.automaton.Automaton;
import org.apache.lucene.util.automaton.CharacterRunAutomaton;
import org.apache.lucene.util.automaton.MinimizationOperations;
import org.elasticsearch.ElasticsearchSecurityException;
import org.elasticsearch.common.Strings;
import org.elasticsearch.common.regex.Regex;
import org.elasticsearch.xpack.core.security.authz.accesscontrol.FieldSubsetReader;
import org.elasticsearch.xpack.core.security.authz.permission.FieldPermissionsDefinition.FieldGrantExcludeGroup;
import org.elasticsearch.xpack.core.security.support.Automatons;
import java.io.IOException;
import java.util.Arrays;
import java.util.HashMap;
import java.util.HashSet;
import java.util.List;
import java.util.Set;
import java.util.stream.Collectors;

import static org.apache.lucene.util.automaton.Operations.subsetOf;

/**
 * Stores patterns to fields which access is granted or denied to and maintains an automaton that can be used to check
 * if permission is
 * allowed for a specific field.
 * Field permissions are configured via a list of strings that are patterns a field has to match. Two lists determine
 * whether or
 * not a field is granted access to:
 * 1. It has to match the patterns in grantedFieldsArray
 * 2. it must not match the patterns in deniedFieldsArray
 */

public final class FieldPermissions implements Accountable {

    public static final FieldPermissions DEFAULT = new FieldPermissions();

    private static final long BASE_FIELD_PERM_DEF_BYTES = RamUsageEstimator.shallowSizeOf(new
        FieldPermissionsDefinition(null, null));
    private static final long BASE_FIELD_GROUP_BYTES = RamUsageEstimator.shallowSizeOf(new
        FieldGrantExcludeGroup(null, null));
    private static final long BASE_HASHSET_SIZE = RamUsageEstimator.shallowSizeOfInstance(HashSet.class);
    static {
        HashMap<String, Object> map = new HashMap<>();
        map.put(FieldPermissions.class.getName(), new Object());
        long mapEntryShallowSize = RamUsageEstimator.shallowSizeOf(map.entrySet().iterator().next());
        // assume a load factor of 50%
        // for each entry, we need two object refs, one for the entry itself
        // and one for the free space that is due to the fact hash tables can
        // not be fully loaded
        BASE_HASHSET_ENTRY_SIZE = mapEntryShallowSize + 2 * RamUsageEstimator.NUM_BYTES_OBJECT_REF;
    }

    private final FieldPermissionsDefinition fieldPermissionsDefinition;
    // an automaton that represents a union of one more sets of permitted and denied fields
    private final CharacterRunAutomaton permittedFieldsAutomaton;
    private final boolean permittedFieldsAutomatonIsTotal;
    private final Automaton originalAutomaton;

    private final long ramBytesUsed;

    /** Constructor that does not enable field-level security: all fields are accepted. */
    public FieldPermissions() {
        this(new FieldPermissionsDefinition(null, null), Automatons.MATCH_ALL);
    }
}
/** Constructor that enables field-level security based on include/exclude rules. Exclude rules
 * have precedence over include rules. */
 public FieldPermissions(FieldPermissionsDefinition fieldPermissionsDefinition) {
   this(fieldPermissionsDefinition, initializePermittedFieldsAutomaton(fieldPermissionsDefinition));
 }

/** Constructor that enables field-level security based on include/exclude rules. Exclude rules
 * have precedence over include rules. */
 FieldPermissions(FieldPermissionsDefinition fieldPermissionsDefinition, Automaton permittedFieldsAutomaton) {
   if (permittedFieldsAutomaton.isDeterministic() == false && permittedFieldsAutomaton.getNumStates() > 1) {
     // we only accept deterministic automata so that the CharacterRunAutomaton constructor
     // directly wraps the provided automaton
     throw new IllegalArgumentException("Only accepts deterministic automata");
   }
   this.fieldPermissionsDefinition = fieldPermissionsDefinition;
   this.originalAutomaton = permittedFieldsAutomaton;
   this.permittedFieldsAutomaton = new CharacterRunAutomaton(permittedFieldsAutomaton);
   // we cache the result of isTotal since this might be a costly operation
   this.permittedFieldsAutomatonIsTotal = Operations.isTotal(permittedFieldsAutomaton);

   long ramBytesUsed = BASE_FIELD_PERM_DEF_BYTES;

   for (FieldGrantExcludeGroup group : fieldPermissionsDefinition.getFieldGrantExcludeGroups()) {
     ramBytesUsed += BASE_FIELD_GROUP_BYTES + BASE_HASHSET_ENTRY_SIZE;
     if (group.getGrantedFields() != null) {
       ramBytesUsed += RamUsageEstimator.shallowSizeOf(group.getGrantedFields());
     }
     if (group.getExcludedFields() != null) {
       ramBytesUsed += RamUsageEstimator.shallowSizeOf(group.getExcludedFields());
     }
   }
   ramBytesUsed += permittedFieldsAutomaton.ramBytesUsed();
   ramBytesUsed += runAutomatonRamBytesUsed(permittedFieldsAutomaton);
   this.ramBytesUsed = ramBytesUsed;
 }

/**
 * Return an estimation of the ram bytes used by a [link CharacterRunAutomaton]
 * that wraps the given automaton.
 */
 private static long runAutomatonRamBytesUsed(Automaton a) {
   return a.getNumStates() * 5; // wild guess, better than 0
 }

 public static Automaton initializePermittedFieldsAutomaton(FieldPermissionsDefinition fieldPermissionsDefinition) {
   return initializePermittedFieldsAutomaton(fieldPermissionsDefinition);
 }
Set<FieldGrantExcludeGroup> groups = fieldPermissionsDefinition.getFieldGrantExcludeGroups();
assert groups.size() > 0 : "there must always be a single group for field inclusion/exclusion";
List<Automaton> automatonList =
   groups.stream()
      .map(g -> FieldPermissions.initializePermittedFieldsAutomaton(g.getGrantedFields(),
         g.getExcludedFields()))
      .collect(Collectors.toList());
return Automatons.unionAndMinimize(automatonList);
}

private static Automaton initializePermittedFieldsAutomaton(final String[] grantedFields, final String[]
   deniedFields) {
   Automaton grantedFieldsAutomaton;
   if (grantedFields == null || Arrays.stream(grantedFields).anyMatch(Regex::isMatchAllPattern)) {
      grantedFieldsAutomaton = Automatons.MATCH_ALL;
   } else {
      // an automaton that includes metadata fields, including join fields created by the _parent field such
      // as _parent#type
      Automaton metaFieldsAutomaton = Operations.concatenate(Automata.makeChar('_'),
         Automata.makeAnyString());
      grantedFieldsAutomaton = Operations.union(Automatons.patterns(grantedFields), metaFieldsAutomaton);
   }
   Automaton deniedFieldsAutomaton;
   if (deniedFields == null || deniedFields.length == 0) {
      deniedFieldsAutomaton = Automatons.EMPTY;
   } else {
      deniedFieldsAutomaton = Automatons.patterns(deniedFields);
   }
   grantedFieldsAutomaton = MinimizationOperations.minimize(grantedFieldsAutomaton,
      Operations.DEFAULT_MAX_DETERMINIZED_STATES);
   deniedFieldsAutomaton = MinimizationOperations.minimize(deniedFieldsAutomaton,
      Operations.DEFAULT_MAX_DETERMINIZED_STATES);
   if (subsetOf(deniedFieldsAutomaton, grantedFieldsAutomaton) == false) {
      throw new ElasticsearchSecurityException("Exceptions for field permissions must be a subset of the " +
         "granted fields but " + Strings.arrayToCommaDelimitedString(deniedFields) + " is not a subset of " +
         Strings.arrayToCommaDelimitedString(grantedFields));
   }
   grantedFieldsAutomaton = Automatons.minusAndMinimize(grantedFieldsAutomaton,
      deniedFieldsAutomaton);
   return grantedFieldsAutomaton;
}

/**
 * Returns true if this field permission policy allows access to the field and false if not.
* fieldName can be a wildcard.
 */

public boolean grantsAccessTo(String fieldName) {
    return permittedFieldsAutomatonIsTotal || permittedFieldsAutomaton.run(fieldName);
}

FieldPermissionsDefinition getFieldPermissionsDefinition() {
    return fieldPermissionsDefinition;
}

/** Return whether field-level security is enabled, i.e. whether any field might be filtered out. */
public boolean hasFieldLevelSecurity() {
    return permittedFieldsAutomatonIsTotal == false;
}

/** Return a wrapped reader that only exposes allowed fields. */
public DirectoryReader filter(DirectoryReader reader) throws IOException {
    if (hasFieldLevelSecurity() == false) {
        return reader;
    }
    return FieldSubsetReader.wrap(reader, permittedFieldsAutomaton);
}

// for testing only
Automaton getIncludeAutomaton() {
    return originalAutomaton;
}

@Override
public boolean equals(Object o) {
    if (this == o) return true;
    if (o == null || getClass() != o.getClass()) return false;
    FieldPermissions that = (FieldPermissions) o;
    if (permittedFieldsAutomatonIsTotal != that.permittedFieldsAutomatonIsTotal) return false;
    return fieldPermissionsDefinition != null ?
        fieldPermissionsDefinition.equals(that.fieldPermissionsDefinition) : that.fieldPermissionsDefinition ==
null;
}

@Override
public int hashCode() {
    int result = fieldPermissionsDefinition != null ? fieldPermissionsDefinition.hashCode() : 0;
    result = 31 * result + (permittedFieldsAutomatonIsTotal ? 1 : 0);
    return result;
}
@Override
public long ramBytesUsed() {
    return ramBytesUsed;
}
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*/
package org.elasticsearch.xpack.core.security.authz.permission;

import org.elasticsearch.xpack.core.security.authz.privilege.ClusterPrivilege;
import java.util.function.Predicate;

/**
 * A permission that is based on privileges for cluster wide actions
 */
public final class ClusterPermission {

    public static final ClusterPermission NONE = new ClusterPermission(ClusterPrivilege.NONE);

    private final ClusterPrivilege privilege;
    private final Predicate<String> predicate;

    ClusterPermission(ClusterPrivilege privilege) {
        this.privilege = privilege;
        this.predicate = privilege.predicate();
    }

    public ClusterPrivilege privilege() {
        return privilege;
    }

    public boolean check(String action) {
        return predicate.test(action);
    }
}

package org.elasticsearch.xpack.core.security.authz.permission;
import org.elasticsearch.cluster.metadata.MetaData;
import org.elasticsearch.common.Nullable;

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*/
package org.elasticsearch.xpack.core.security.authz.permission;
import org.elasticsearch.cluster.metadata.MetaData;
import org.elasticsearch.common.Nullable;
import org.elasticsearch.common.bytes.BytesReference;
import org.elasticsearch.common.util.set.Sets;
import org.elasticsearch.xpack.core.security.authz.RoleDescriptor;
import org.elasticsearch.xpack.core.security.authz.accesscontrol.IndicesAccessControl;
import org.elasticsearch.xpack.core.security.authz.privilege.ClusterPrivilege;
import org.elasticsearch.xpack.core.security.authz.privilege.IndexPrivilege;
import org.elasticsearch.xpack.core.security.authz.privilege.Privilege;
import java.util.ArrayList;
import java.util.Collections;
import java.util.List;
import java.util.Map;
import java.util.Objects;
import java.util.Set;

public final class Role {

    public static final Role EMPTY = Role.builder("__empty").build();

    private final String[] names;
    private final ClusterPermission cluster;
    private final IndicesPermission indices;
    private final RunAsPermission runAs;

    Role(String[] names, ClusterPermission cluster, IndicesPermission indices, RunAsPermission runAs) {
        this.names = names;
        this.cluster = Objects.requireNonNull(cluster);
        this.indices = Objects.requireNonNull(indices);
        this.runAs = Objects.requireNonNull(runAs);
    }

    public String[] names() {
        return names;
    }

    public ClusterPermission cluster() {
        return cluster;
    }

    public IndicesPermission indices() {
        return indices;
    }

    public RunAsPermission runAs() {
        return runAs;
    }

    public static Builder builder(String... names) {

    }
}
public static Builder builder(String[] names, FieldPermissionsCache fieldPermissionsCache) {
    return new Builder(names, null);
}

public static Builder builder(RoleDescriptor rd, FieldPermissionsCache fieldPermissionsCache) {
    return new Builder(rd, fieldPermissionsCache);
}

/**
 * Returns whether at least one group encapsulated by this indices permissions is authorized to execute the
 * specified action with the requested indices/aliases. At the same time if field and/or document level security
 * is configured for any group also the allowed fields and role queries are resolved.
 */
public IndicesAccessControl authorize(String action, Set<String> requestedIndicesOrAliases, MetaData
    metaData, FieldPermissionsCache fieldPermissionsCache) {

    Map<String, IndicesAccessControl.IndexAccessControl> indexPermissions = indices.authorize(
        action, requestedIndicesOrAliases, metaData, fieldPermissionsCache
    );

    // At least one role / indices permission set need to match with all the requested indices/aliases:
    boolean granted = true;
    for (Map.Entry<String, IndicesAccessControl.IndexAccessControl> entry : indexPermissions.entrySet()) {
        if (!entry.getValue().isGranted()) {
            granted = false;
            break;
        }
    }

    return new IndicesAccessControl(granted, indexPermissions);
}

public static class Builder {

    private final String[] names;
    private ClusterPermission cluster = ClusterPermission.NONE;
    private RunAsPermission runAs = RunAsPermission.NONE;
    private List<IndicesPermission.Group> groups = new ArrayList<>();
    private FieldPermissionsCache fieldPermissionsCache = null;

    private Builder(String[] names, FieldPermissionsCache fieldPermissionsCache) {
        this.names = names;
        this.fieldPermissionsCache = fieldPermissionsCache;
    }

    private Builder(RoleDescriptor rd, @Nullable FieldPermissionsCache fieldPermissionsCache) {

}
this.names = new String[] { rd.getName() };
this.fieldPermissionsCache = fieldPermissionsCache;
if (rd.getClusterPrivileges().length == 0) {
    cluster = ClusterPermission.NONE;
} else {
    this.cluster(ClusterPrivilege.get(Sets.newHashSet(rd.getClusterPrivileges())));
}
groups.addAll(convertFromIndicesPrivileges(rd.getIndicesPrivileges(), fieldPermissionsCache));
String[] rdRunAs = rd.getRunAs();
if (rdRunAs != null && rdRunAs.length > 0) {
    this.runAs(new Privilege(Sets.newHashSet(rdRunAs), rdRunAs));
}
}

public Builder cluster(ClusterPrivilege privilege) {
    cluster = new ClusterPermission(privilege);
    return this;
}

public Builder runAs(Privilege privilege) {
    runAs = new RunAsPermission(privilege);
    return this;
}

public Builder add(IndexPrivilege privilege, String... indices) {
    groups.add(new IndicesPermission.Group(privilege, FieldPermissions.DEFAULT, null, indices));
    return this;
}

public Builder add(FieldPermissions fieldPermissions, Set<BytesReference> query, IndexPrivilege privilege,
String... indices) {
    groups.add(new IndicesPermission.Group(privilege, fieldPermissions, query, indices));
    return this;
}

public Role build() {
    IndicesPermission indices = groups.isEmpty() ? IndicesPermission.NONE :
    new IndicesPermission(groups.toArray(new IndicesPermission.Group[groups.size()]));
    return new Role(names, cluster, indices, runAs);
}

static List<IndicesPermission.Group> convertFromIndicesPrivileges(RoleDescriptor.IndicesPrivileges[]
indicesPrivileges,
@Nullable FieldPermissionsCache fieldPermissionsCache) {
    List<IndicesPermission.Group> list = new ArrayList<>(indicesPrivileges.length);
    for (RoleDescriptor.IndicesPrivileges privilege : indicesPrivileges) {
        final FieldPermissions fieldPermissions;
        if (fieldPermissionsCache != null) {
            
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8267
fieldPermissions = fieldPermissionsCache.getFieldPermissions(privilege.getGrantedFields(),
privilege.getDeniedFields());
} else {
    fieldPermissions = new FieldPermissions(
            new FieldPermissionsDefinition(privilege.getGrantedFields(), privilege.getDeniedFields()));
}
final Set<BytesReference> query = privilege.getQuery() == null ? null :
Collections.singleton(privilege.getQuery());
list.add(new IndicesPermission.Group(IndexPrivilege.get(Sets.newHashSet(privilege.getPrivileges())),
        fieldPermissions,
        query,
        privilege.getIndices()));
}
return list;
}
}
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* or more contributor license agreements. Licensed under the Elastic License;
* you may not use this file except in compliance with the Elastic License.
*/
package org.elasticsearch.xpack.core.security.authz.permission;

import org.apache.lucene.util.automaton.Automaton;
import org.apache.lucene.util.automaton.TooComplexToDeterminizeException;
import org.elasticsearch.ElasticsearchSecurityException;
import org.elasticsearch.cluster.metadata.AliasOrIndex;
import org.elasticsearch.cluster.metadata.IndexMetaData;
import org.elasticsearch.common.Nullable;
import org.elasticsearch.common.Strings;
import org.elasticsearch.common.bytes.BytesReference;
import org.elasticsearch.common.logging.Loggers;
import org.elasticsearch.xpack.core.security.authz.accesscontrol.IndicesAccessControl;
import org.elasticsearch.xpack.core.security.authz.privilege.IndexPrivilege;
import org.elasticsearch.xpack.core.security.support.Automatons;

import java.util.ArrayList;
import java.util.Arrays;
import java.util.HashMap;
import java.util.HashSet;
import java.util.Iterator;
import java.util.List;
import java.util.Map;
import java.util.Objects;
import java.util.Set;
import java.util.SortedMap;
import java.util.concurrent.ConcurrentHashMap;
import java.util.function.Function;
import java.util.function.Predicate;
import static java.util.Collections.unmodifiableMap;
import static java.util.Collections.unmodifiableSet;

/**
 * A permission that is based on privileges for index related actions executed
 * on specific indices
 */
public final class IndicesPermission implements Iterable<IndicesPermission.Group> {

    public static final IndicesPermission NONE = new IndicesPermission();

    private final Function<String, Predicate<String>> loadingFunction;
    private final ConcurrentHashMap<String, Predicate<String>> allowedIndicesMatchersForAction = new ConcurrentHashMap<>();
    private final Group[] groups;

    public IndicesPermission(Group... groups) {
        this.groups = groups;
        loadingFunction = (action) -> {
            List<String> indices = new ArrayList<>();
            for (Group group : groups) {
                if (group.actionMatcher.test(action)) {
                    indices.addAll(Arrays.asList(group.indices));
                }
            }
            return indexMatcher(indices);
        };
    }

    static Predicate<String> indexMatcher(List<String> indices) {
        try {
            return Automatons.predicate(indices);
        } catch (TooComplexToDeterminizeException e) {
            Loggers.getLogger(IndicesPermission.class).debug("Index pattern automaton {[]} is too complex", indices);
            String description = Strings.collectionToCommaDelimitedString(indices);
            if (description.length() > 80) {
                description = Strings.cleanTruncate(description, 80) + "...";
            }
            throw new ElasticsearchSecurityException("The set of permitted index patterns {[]} is too complex to evaluate", e, description);
        }
    }
}
@Override
public Iterator<Group> iterator() {
    return Arrays.asList(groups).iterator();
}

public Group[] groups() {
    return groups;
}

/**
 * @return A predicate that will match all the indices that this permission
 * has the privilege for executing the given action on.
 */
public Predicate<String> allowedIndicesMatcher(String action) {
    return allowedIndicesMatchersForAction.computeIfAbsent(action, loadingFunction);
}

/**
 * Checks if the permission matches the provided action, without looking at indices.
 * To be used in very specific cases where indices actions need to be authorized regardless of their indices.
 * The usecase for this is composite actions that are initially only authorized based on the action name (indices are not
 * checked on the coordinating node), and properly authorized later at the shard level checking their indices as well.
 */
public boolean check(String action) {
    for (Group group : groups) {
        if (group.check(action)) {
            return true;
        }
    }
    return false;
}

public Automaton allowedActionsMatcher(String index) {
    List<Automaton> automatonList = new ArrayList<>();
    for (Group group : groups) {
        if (group.indexNameMatcher.test(index)) {
            automatonList.add(group.privilege.getAutomaton());
        }
    }
    return automatonList.isEmpty() ? Automatons.EMPTY : Automatons.unionAndMinimize(automatonList);
}

/**
 * Authorizes the provided action against the provided indices, given the current cluster metadata
public Map<String, IndicesAccessControl.IndexAccessControl> authorize(String action, Set<String> requestedIndicesOrAliases, MetaData metaData, FieldPermissionsCache fieldPermissionsCache) {
    // now... every index that is associated with the request, must be granted
    // by at least one indices permission group
    SortedMap<String, AliasOrIndex> allAliasesAndIndices = metaData.getAliasAndIndexLookup();
    Map<String, Set<FieldPermissions>> fieldPermissionsByIndex = new HashMap<>();
    Map<String, DocumentLevelPermissions> roleQueriesByIndex = new HashMap<>();
    Map<String, Boolean> grantedBuilder = new HashMap<>();

    for (String indexOrAlias : requestedIndicesOrAliases) {
        boolean granted = false;
        Set<String> concreteIndices = new HashSet<>();
        AliasOrIndex aliasOrIndex = allAliasesAndIndices.get(indexOrAlias);
        if (aliasOrIndex != null) {
            for (IndexMetaData indexMetaData : aliasOrIndex.getIndices()) {
                concreteIndices.add(indexMetaData.getIndex().getName());
            }
        }
        for (Group group : groups) {
            if (group.check(action, indexOrAlias)) {
                granted = true;
                for (String index : concreteIndices) {
                    Set<FieldPermissions> fieldPermissions = fieldPermissionsByIndex.computeIfAbsent(index, (k) -> new HashSet<>());
                    fieldPermissionsByIndex.put(indexOrAlias, fieldPermissions);
                    fieldPermissions.add(group.getFieldPermissions());
                    DocumentLevelPermissions permissions = roleQueriesByIndex.computeIfAbsent(index, (k) -> new DocumentLevelPermissions());
                    roleQueriesByIndex.putIfAbsent(indexOrAlias, permissions);
                    if (group.hasQuery()) {
                        permissions.addAll(group.getQuery());
                    } else {
                        // if more than one permission matches for a concrete index here and if
                        // a single permission doesn't have a role query then DLS will not be
                        // applied even when other permissions do have a role query
                        permissions.setAllowAll(true);
                    }
                }
            }
        }
        if (concreteIndices.isEmpty()) {
            grantedBuilder.put(indexOrAlias, granted);
        } else {
            grantedBuilder.put(indexOrAlias, granted);
        }
    }
}
Map<String, IndicesAccessControl.IndexAccessControl> indexPermissions = new HashMap<>();
for (Map.Entry<String, Boolean> entry : grantedBuilder.entrySet()) {
    String index = entry.getKey();
    DocumentLevelPermissions permissions = roleQueriesByIndex.get(index);
    final Set<BytesReference> roleQueries;
    if (permissions != null && permissions.isAllowAll() == false) {
        roleQueries = unmodifiableSet(permissions.queries);
    } else {
        roleQueries = null;
    }

    final FieldPermissions fieldPermissions;
    final Set<FieldPermissions> indexFieldPermissions = fieldPermissionsByIndex.get(index);
    if (indexFieldPermissions != null && indexFieldPermissions.isEmpty() == false) {
        fieldPermissions = indexFieldPermissions.size() == 1 ? indexFieldPermissions.iterator().next() :
            fieldPermissionsCache.getFieldPermissions(indexFieldPermissions);
    } else {
        fieldPermissions = FieldPermissions.DEFAULT;
    }

    indexPermissions.put(index, new IndicesAccessControl.IndexAccessControl(entry.getValue(),
            fieldPermissions, roleQueries));
}
return unmodifiableMap(indexPermissions);

public static class Group {
    private final IndexPrivilege privilege;
    private final Predicate<String> actionMatcher;
    private final String[] indices;
    private final Predicate<String> indexNameMatcher;

    public FieldPermissions getFieldPermissions() {
        return fieldPermissions;
    }

    private final FieldPermissions fieldPermissions;
    private final Set<BytesReference> query;

    public Group(IndexPrivilege privilege, FieldPermissions fieldPermissions, @Nullable Set<BytesReference>
            query, String... indices) {
        assert indices.length != 0;
this.privilege = privilege;
this.actionMatcher = privilege.predicate();
this.indices = indices;
this.indexNameMatcher = indexMatcher(Arrays.asList(indices));
this.fieldPermissions = Objects.requireNonNull(fieldPermissions);
this.query = query;
}

public IndexPrivilege privilege() {
  return privilege;
}

public String[] indices() {
  return indices;
}

@Nullable
public Set<BytesReference> getQuery() {
  return query;
}

private boolean check(String action) {
  return actionMatcher.test(action);
}

private boolean check(String action, String index) {
  assert index != null;
  return check(action) && indexNameMatcher.test(index);
}

boolean hasQuery() {
  return query != null;
}

}

private static class DocumentLevelPermissions {

private Set<BytesReference> queries = null;
private boolean allowAll = false;

private void addAll(Set<BytesReference> query) {
  if (allowAll == false) {
    if (queries == null) {
      queries = new HashSet<>();
    }
    queries.addAll(query);
  }
  queries.addAll(query);
}
private boolean isAllowAll() {
    return allowAll;
}

private void setAllowAll(boolean allowAll) {
    this.allowAll = allowAll;
}
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*/
package org.elasticsearch.xpack.core.security.authz.permission;

import java.util.Arrays;
import java.util.Collections;
import java.util.Set;

public final class FieldPermissionsDefinition {

    private final Set<FieldGrantExcludeGroup> fieldGrantExcludeGroups;

    public FieldPermissionsDefinition(String[] grant, String[] exclude) {
        this(Collections.singleton(new FieldGrantExcludeGroup(grant, exclude)));
    }

    public FieldPermissionsDefinition(Set<FieldGrantExcludeGroup> fieldGrantExcludeGroups) {
        this.fieldGrantExcludeGroups = Collections.unmodifiableSet(fieldGrantExcludeGroups);
    }

    public Set<FieldGrantExcludeGroup> getFieldGrantExcludeGroups() {
        return fieldGrantExcludeGroups;
    }

    @Override
    public boolean equals(Object o) {
        if (this == o) return true;
        if (o == null || getClass() != o.getClass()) return false;
        FieldPermissionsDefinition that = (FieldPermissionsDefinition) o;
        return this.fieldGrantExcludeGroups.equals(that.getFieldGrantExcludeGroups());
    }

    public FieldPermissionsDefinitionDefinition(String[] grant, String[] exclude) {
        this(Collections.singleton(new FieldGrantExcludeGroup(grant, exclude)));
    }

    public FieldPermissionsDefinition Definition(Set<FieldGrantExcludeGroup> fieldGrantExcludeGroups) {
        this.fieldGrantExcludeGroups = Collections.unmodifiableSet(fieldGrantExcludeGroups);
    }

    public Set<FieldGrantExcludeGroup> getGrantExcludeGroups() {
        return fieldGrantExcludeGroups;
    }

    @Override
    public boolean equals(Object o) {
        if (this == o) return true;
        if (o == null || getClass() != o.getClass()) return false;
        FieldPermissionsDefinition that = (FieldPermissionsDefinition) o;
        return this.fieldGrantExcludeGroups.equals(that.getFieldGrantExcludeGroups());
    }

    package org.elasticsearch.xpack.core.security.authz.permission;

    import java.util.Arrays;
    import java.util.Collections;
    import java.util.Set;

    public final class FieldPermissionsDefinition {

        private final Set<FieldGrantExcludeGroup> fieldGrantExcludeGroups;

        public FieldPermissionsDefinition(String[] grant, String[] exclude) {
            this(Collections.singleton(new FieldGrantExcludeGroup(grant, exclude)));
        }

        public FieldPermissionsDefinition(Set<FieldGrantExcludeGroup> fieldGrantExcludeGroups) {
            this.fieldGrantExcludeGroups = Collections.unmodifiableSet(fieldGrantExcludeGroups);
        }

        public Set<FieldGrantExcludeGroup> getFieldGrantExcludeGroups() {
            return fieldGrantExcludeGroups;
        }

        @Override
        public boolean equals(Object o) {
            if (this == o) return true;
            if (o == null || getClass() != o.getClass()) return false;
            FieldPermissionsDefinition that = (FieldPermissionsDefinition) o;

            return this.fieldGrantExcludeGroups.equals(that.getFieldGrantExcludeGroups());
        }
    }
return fieldGrantExcludeGroups != null ?
    fieldGrantExcludeGroups.equals(that.fieldGrantExcludeGroups) :
    that.fieldGrantExcludeGroups == null;
}

@Override
public int hashCode() {
    return fieldGrantExcludeGroups != null ? fieldGrantExcludeGroups.hashCode() : 0;
}

public static final class FieldGrantExcludeGroup {
    private final String[] grantedFields;
    private final String[] excludedFields;

    public FieldGrantExcludeGroup(String[] grantedFields, String[] excludedFields) {
        this.grantedFields = grantedFields;
        this.excludedFields = excludedFields;
    }

    public String[] getGrantedFields() {
        return grantedFields;
    }

    public String[] getExcludedFields() {
        return excludedFields;
    }

    @Override
    public boolean equals(Object o) {
        if (this == o) return true;
        if (o == null || getClass() != o.getClass()) return false;
        FieldGrantExcludeGroup that = (FieldGrantExcludeGroup) o;
        if (!Arrays.equals(grantedFields, that.grantedFields)) return false;
        return Arrays.equals(excludedFields, that.excludedFields);
    }

    @Override
    public int hashCode() {
        int result = Arrays.hashCode(grantedFields);
        result = 31 * result + Arrays.hashCode(excludedFields);
        return result;
    }
}
package org.elasticsearch.xpack.core.security.authz.permission;

import org.elasticsearch.xpack.core.security.authz.privilege.Privilege;
import java.util.function.Predicate;

/**
 * A permissions that is based on a general privilege that contains patterns of users that this
 * user can execute a request as
 */
public final class RunAsPermission {

    public static final RunAsPermission NONE = new RunAsPermission(Privilege.NONE);

    private final Predicate<String> predicate;

    RunAsPermission(Privilege privilege) {
        this.predicate = privilege.predicate();
    }

    /**
     * Checks if this permission grants run as to the specified user
     */
    public boolean check(String username) {
        return predicate.test(username);
    }

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     * you may not use this file except in compliance with the Elastic License.
     */
    package org.elasticsearch.xpack.core.security.authz.permission;

    import org.apache.lucene.util.automaton.Automaton;
    import org.elasticsearch.ElasticsearchException;
    import org.elasticsearch.common.cache.Cache;
    import org.elasticsearch.common.cache.CacheBuilder;
    import org.elasticsearch.common.settings.Setting;
    import org.elasticsearch.common.settings.Setting.Property;
    import org.elasticsearch.xpack.core.security.authz.permission.FieldPermissionsDefinition.FieldGrantExcludeGroup;
    import org.elasticsearch.xpack.core.security.support.Automatons;
import java.util.Collection;
import java.util.List;
import java.util.Optional;
import java.util.Set;
import java.util.concurrent.ExecutionException;
import java.util.function.Predicate;
import java.util.stream.Collectors;
import static org.elasticsearch.xpack.core.security.SecurityField.setting;

/**
 * A service for managing the caching of @link FieldPermissions as these may often need to be combined or
 * created and internally they
 * use an @link org.apache.lucene.util.automaton.Automaton, which can be costly to create once you account for
 * minimization
 */
public final class FieldPermissionsCache {

    public static final Setting<Long> CACHE_SIZE_SETTING = Setting.longSetting(
            setting("authz.store.roles.field_permissions.cache.max_size_in_bytes"), 100 * 1024 * 1024, -1L,
            Property.NodeScope);
    private final Cache<FieldPermissionsDefinition, FieldPermissions> cache;

    public FieldPermissionsCache(Settings settings) {
        this.cache = CacheBuilder.<FieldPermissionsDefinition, FieldPermissions>builder()
                .setMaximumWeight(CACHE_SIZE_SETTING.get(settings))
                .weigher((key, fieldPermissions) -> fieldPermissions.ramBytesUsed())
                .build();
    }

    /**
     * Gets a @link FieldPermissions instance that corresponds to the granted and denied parameters. The instance
     * may come from the cache
     * or if it gets created, the instance will be cached
     */
    FieldPermissions getFieldPermissions(String[] granted, String[] denied) {
        return getFieldPermissions(new FieldPermissionsDefinition(granted, denied));
    }

    /**
     * Gets a @link FieldPermissions instance that corresponds to the granted and denied parameters. The instance
     * may come from the cache
     * or if it gets created, the instance will be cached
     */
    public FieldPermissions getFieldPermissions(FieldPermissionsDefinition fieldPermissionsDefinition) {
        try {
            return cache.computeIfAbsent(fieldPermissionsDefinition,
                    null,
                    (fieldPermissionsDefinition) -> {
                        FieldPermissions fieldPermissions = ...
                        return fieldPermissions;
                    });
        } catch (ExecutionException e) {
            throw new RuntimeException(e.getCause());
        }
    }
}
(key) -> new FieldPermissions(key, FieldPermissions.initializePermittedFieldsAutomaton(key)));}
} catch (ExecutionException e) {
    throw new ElasticsearchException("unable to compute field permissions", e);
}
}

/**
* Returns a field permissions object that corresponds to the merging of the given field permissions and caches the
* instance if one was
* not found in the cache.
*/
FieldPermissions getFieldPermissions(Collection<FieldPermissions> fieldPermissionsCollection) {
    Optional<FieldPermissions> allowAllFieldPermissions = fieldPermissionsCollection.stream()
        .filter(((Predicate<FieldPermissions>) (FieldPermissions::hasFieldLevelSecurity)).negate())
        .findFirst();
    return allowAllFieldPermissions.orElseGet(() -> {
        final Set<FieldGrantExcludeGroup> fieldGrantExcludeGroups = fieldPermissionsCollection.stream()
            .flatMap(fieldPermission ->
                fieldPermission.getFieldPermissionsDefinition().getFieldGrantExcludeGroups().stream())
            .collect(Collectors.toSet());
        final FieldPermissionsDefinition combined = new FieldPermissionsDefinition(fieldGrantExcludeGroups);
        try {
            return cache.computeIfAbsent(combined, (key) -> {
                List<Automaton> automatonList = fieldPermissionsCollection.stream()
                    .map(FieldPermissions::getIncludeAutomaton)
                    .collect(Collectors.toList());
                return new FieldPermissions(key, Automatons.unionAndMinimize(automatonList));
            });
        } catch (ExecutionException e) {
            throw new ElasticsearchException("unable to compute field permissions", e);
        }
    });
}

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*******************************************************************************/
package org.elasticsearch.license;

import org.elasticsearch.analysis.common.CommonAnalysisPlugin;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.env.Environment;
import org.elasticsearch.plugins.Plugin;
import org.elasticsearch.test.ESIntegTestCase.ClusterScope;
import org.elasticsearch.transport.Netty4Plugin;
import org.elasticsearch.test.ESTestingHelpers;
import org.elasticsearch.test.ESIntegTestCase;
import org.elasticsearch.test.ESIntegTestCase.ClusterScope;
import org.elasticsearch.test.ESIntegTestCase.ClusterRoScope;
import org.elasticsearch.test.ESIntegTestCase.Scope;
import org.elasticsearch.test.ESIntegTestCase.TestElasticsearchPlugin;
import org.elasticsearch.test.ESIntegTestCase.TimeValue;
import org.elasticsearch.test.ESIntegTestCase;
import org.elasticsearch.xpack.core.LocalStateCompositeXPackPlugin;
import org.elasticsearch.xpack.core.XPackPlugin;
import java.nio.charset.StandardCharsets;
import java.nio.file.Files;
import java.nio.file.Path;
import java.util.Arrays;
import java.util.Collection;
import static org.elasticsearch.test.ESIntegTestCase.Scope.TEST;
import static org.hamcrest.CoreMatchers.equalTo;
import static org.hamcrest.CoreMatchers.nullValue;

@ClusterScope(scope = TEST, numDataNodes = 0, numClientNodes = 0, maxNumDataNodes = 0, transportClientRatio = 0)
public class LicenseServiceClusterTests extends AbstractLicensesIntegrationTest Case {

    @Override
    protected Settings nodeSettings(int nodeOrdinal) {
            return nodeSettingsBuilder(nodeOrdinal).build();
    }

    @Override
    protected boolean addMockHttpTransport() {
            return false; // enable http
    }

    private Settings.Builder nodeSettingsBuilder(int nodeOrdinal) {
            return Settings.builder()
                    .put(super.nodeSettings(nodeOrdinal))
                    .put("node.data", true)
                    .put("resource.reload.interval.high", "500ms"); // for license mode file watcher
    }

    @Override
    protected Collection<? extends Plugin> nodePlugins() {
            return Arrays.asList(LocalStateCompositeXPackPlugin.class, CommonAnalysisPlugin.class, Netty4Plugin.class);
    }

    @Override
    protected Collection<? extends Plugin> transportClientPlugins() {
            return nodePlugins();
    }

    public void testClusterRestartWithLicense() throws Exception {
            wipeAllLicenses();
int numNodes = randomIntBetween(1, 5);
logger.info("--> starting {} node(s)", numNodes);
internalCluster().startNodes(numNodes);
ensureGreen();

logger.info("--> put signed license");
LicensingClient licensingClient = new LicensingClient(client());
License license = TestUtils.generateSignedLicense(TimeValue.timeValueMinutes(1));
putLicense(license);
assertThat(licensingClient.prepareGetLicense().get().license(), equalTo(license));
assertOperationMode(license.operationMode());

logger.info("--> restart all nodes");
internalCluster().fullRestart();
ensureYellow();
licensingClient = new LicensingClient(client());
logger.info("--> get and check signed license");
assertThat(licensingClient.prepareGetLicense().get().license(), equalTo(license));
logger.info("--> remove licenses");
licensingClient.prepareDeleteLicense().get();
assertOperationMode(License.OperationMode.MISSING);

wipeAllLicenses();
}

public void testCloudInternalLicense() throws Exception {
  wipeAllLicenses();

  int numNodes = randomIntBetween(1, 5);
  logger.info("--> starting {} node(s)", numNodes);
  internalCluster().startNodes(numNodes);
  ensureGreen();

  logger.info("--> put signed license");
  LicensingClient licensingClient = new LicensingClient(client());
  License license = TestUtils.generateSignedLicense("cloud_internal", License.VERSION_CURRENT,
  System.currentTimeMillis(),
  TimeValue.timeValueMinutes(1));
  putLicense(license);
  assertThat(licensingClient.prepareGetLicense().get().license(), equalTo(license));
  System.currentTimeMillis(),
  TimeValue.timeValueMinutes(1));
  putLicense(license);
  assertThat(licensingClient.prepareGetLicense().get().license(), equalTo(license));
assertOperationMode(License.OperationMode.PLATINUM);
writeCloudInternalMode("gold");
assertOperationMode(License.OperationMode.GOLD);
writeCloudInternalMode("basic");
assertOperationMode(License.OperationMode.BASIC);
}

public void testClusterRestartWhileEnabled() throws Exception {
    wipeAllLicenses();
    internalCluster().startNode();
    ensureGreen();
    assertLicenseActive(true);
    logger.info("--> restart node");
    internalCluster().fullRestart();
    ensureYellow();
    logger.info("--> await node for enabled");
    assertLicenseActive(true);
}

public void testClusterRestartWhileGrace() throws Exception {
    wipeAllLicenses();
    internalCluster().startNode();
    assertLicenseActive(true);
    putLicense(TestUtils.generateSignedLicense(TimeValue.timeValueMillis(0)));
    ensureGreen();
    assertLicenseActive(true);
    logger.info("--> restart node");
    internalCluster().fullRestart();
    ensureYellow();
    logger.info("--> await node for grace_period");
    assertLicenseActive(true);
}

public void testClusterRestartWhileExpired() throws Exception {
    wipeAllLicenses();
    internalCluster().startNode();
    ensureGreen();
    assertLicenseActive(true);
    putLicense(TestUtils.generateExpiredNonBasicLicense(System.currentTimeMillis() -
            LicenseService.GRACE_PERIOD_DURATION.getMillis()));
    assertLicenseActive(false);
    logger.info("--> restart node");
    internalCluster().fullRestart();
    ensureYellow();
    logger.info("--> await node for disabled");
    assertLicenseActive(false);
}
public void testClusterRestartWithOldSignature() throws Exception {
    wipeAllLicenses();
    internalCluster().startNode();
    ensureGreen();
    assertLicenseActive(true);
    putLicense(TestUtils.generateSignedLicenseOldSignature());
    LicensingClient licensingClient = new LicensingClient(client());
    assertThat(licensingClient.prepareGetLicense().get().license().version(),
                equalTo(License.VERSION_START_DATE));
    logger.info("--> restart node");
    internalCluster().fullRestart(); // restart so that license is updated
    ensureYellow();
    logger.info("--> await node for enabled");
    assertLicenseActive(true);
    licensingClient = new LicensingClient(client());
    assertThat(licensingClient.prepareGetLicense().get().license().version(),
                equalTo(License.VERSION_CURRENT)); //license updated
    internalCluster().fullRestart(); // restart once more and verify updated license is active
    ensureYellow();
    logger.info("--> await node for enabled");
    assertLicenseActive(true);
}

private void assertOperationMode(License.OperationMode operationMode) throws InterruptedException {
    boolean success = awaitBusy(() -> {
        for (XPackLicenseState licenseState : internalCluster().getDataNodeInstances(XPackLicenseState.class)) {
            if (licenseState.getOperationMode() == operationMode) {
                return true;
            }
        }
        return false;
    });
    assertTrue(success);
}

private void writeCloudInternalMode(String mode) throws Exception {
    for (Environment environment : internalCluster().getDataOrMasterNodeInstances(Environment.class)) {
        Path licenseModePath = XPackPlugin.resolveConfigFile(environment, "license_mode");
        Files.createDirectories(licenseModePath.getParent());
        Files.write(licenseModePath, mode.getBytes(StandardCharsets.UTF_8));
    }
}

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 * or more contributor license agreements. Licensed under the Elastic License;
 * you may not use this file except in compliance with the Elastic License.
 */
package org.elasticsearch.license;

import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.test.ESTestCase;
import org.elasticsearch.threadpool.TestThreadPool;
import org.elasticsearch.watcher.ResourceWatcherService;
import org.junit.After;
import org.junit.Before;

import java.io.IOException;
import java.nio.charset.StandardCharsets;
import java.nio.file.Files;
import java.nio.file.Path;
import java.nio.file.StandardOpenOption;
import java.util.concurrent.CountDownLatch;
import java.util.concurrent.TimeUnit;
import java.util.concurrent.atomic.AtomicReference;
import static org.hamcrest.Matchers.equalTo;

public class OperationModeFileWatcherTests extends ESTestCase {
  private ResourceWatcherService watcherService;
  private TestThreadPool threadPool;
  private Path licenseModePath;
  private OperationModeFileWatcher operationModeFileWatcher;
  private AtomicReference<CountDownLatch> onChangeCounter;

  @Before
  public void setup() throws Exception {
    threadPool = new TestThreadPool("license mode file watcher tests");
    Settings settings = Settings.builder()
      .put("resource.reload.interval.high", "10ms")
      .build();
    watcherService = new ResourceWatcherService(settings, threadPool);
    watcherService.start();
    licenseModePath = createTempFile();
    onChangeCounter = new AtomicReference<>(new CountDownLatch(1));
    operationModeFileWatcher = new OperationModeFileWatcher(watcherService, licenseModePath, logger,
      () -> onChangeCounter.get().countDown());
  }

  @After
  public void shutdown() throws InterruptedException {
    terminate(threadPool);
    watcherService.stop();
  }

  public void setup() throws Exception {
    threadPool = new TestThreadPool("license mode file watcher tests");
    Settings settings = Settings.builder()
      .put("resource.reload.interval.high", "10ms")
      .build();
    watcherService = new ResourceWatcherService(settings, threadPool);
    watcherService.start();
    licenseModePath = createTempFile();
    onChangeCounter = new AtomicReference<>(new CountDownLatch(1));
    operationModeFileWatcher = new OperationModeFileWatcher(watcherService, licenseModePath, logger,
      () -> onChangeCounter.get().countDown());
  }

  @After
  public void shutdown() throws InterruptedException {
    terminate(threadPool);
    watcherService.stop();
  }
}
public void testInit() throws Exception {
    onChangeCounter.set(new CountDownLatch(2));
    writeMode("gold");
    assertThat(operationModeFileWatcher.getCurrentOperationMode(),
                equalTo(License.OperationMode.PLATINUM));
    operationModeFileWatcher.init();
    assertTrue(onChangeCounter.get().await(5, TimeUnit.SECONDS));
    assertThat(operationModeFileWatcher.getCurrentOperationMode(),
                equalTo(License.OperationMode.GOLD));
}

public void testUpdateModeFromFile() throws Exception {
    Files.delete(licenseModePath);
    operationModeFileWatcher.init();
    assertThat(operationModeFileWatcher.getCurrentOperationMode(),
                equalTo(License.OperationMode.PLATINUM));
    writeMode("gold");
    assertTrue(onChangeCounter.get().await(5, TimeUnit.SECONDS));
    assertThat(operationModeFileWatcher.getCurrentOperationMode(),
                equalTo(License.OperationMode.GOLD));
    onChangeCounter.set(new CountDownLatch(1));
    writeMode("basic");
    assertTrue(onChangeCounter.get().await(5, TimeUnit.SECONDS));
    assertThat(operationModeFileWatcher.getCurrentOperationMode(),
                equalTo(License.OperationMode.BASIC));
}

public void testDeleteModeFromFile() throws Exception {
    Files.delete(licenseModePath);
    operationModeFileWatcher.init();
    writeMode("gold");
    assertTrue(onChangeCounter.get().await(5, TimeUnit.SECONDS));
    assertThat(operationModeFileWatcher.getCurrentOperationMode(),
                equalTo(License.OperationMode.GOLD));
    onChangeCounter.set(new CountDownLatch(1));

    Files.delete(licenseModePath);
    assertTrue(onChangeCounter.get().await(5, TimeUnit.SECONDS));
    assertThat(operationModeFileWatcher.getCurrentOperationMode(),
                equalTo(License.OperationMode.PLATINUM));
}

public void testInvalidModeFromFile() throws Exception {
    writeMode("invalid");
    operationModeFileWatcher.init();
    assertThat(operationModeFileWatcher.getCurrentOperationMode(),
                equalTo(License.OperationMode.PLATINUM));
    operationModeFileWatcher.onFileChanged(licenseModePath);
    assertThat(operationModeFileWatcher.getCurrentOperationMode(),
                equalTo(License.OperationMode.PLATINUM));
}
public void testLicenseModeFileIsDirectory() throws Exception {
    licenseModePath = createTempDir();
    operationModeFileWatcher.init();
    assertThat(operationModeFileWatcher.getCurrentOperationMode(),
        equalTo(License.OperationMode.PLATINUM));
    operationModeFileWatcher.onFileChanged(licenseModePath);
    assertThat(operationModeFileWatcher.getCurrentOperationMode(),
        equalTo(License.OperationMode.PLATINUM));
}

public void testLicenseModeFileCreatedAfterInit() throws Exception {
    Files.delete(licenseModePath);
    operationModeFileWatcher.init();
    assertThat(operationModeFileWatcher.getCurrentOperationMode(),
        equalTo(License.OperationMode.PLATINUM));
    onChangeCounter.set(new CountDownLatch(1));
    Path tempFile = createTempFile();
    writeMode("gold", tempFile);
    licenseModePath = tempFile;
    assertTrue(onChangeCounter.get().await(5, TimeUnit.SECONDS));
    assertThat(operationModeFileWatcher.getCurrentOperationMode(),
        equalTo(License.OperationMode.GOLD));
}

private void writeMode(String mode) throws IOException {
    writeMode(mode, licenseModePath);
}

static void writeMode(String mode, Path file) throws IOException {
    Files.write(file, mode.getBytes(StandardCharsets.UTF_8), StandardOpenOption.CREATE);
}

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 */
package org.elasticsearch.license;

import org.elasticsearch.common.bytes.BytesReference;
import org.elasticsearch.common.io.stream.BytesStreamOutput;
import org.elasticsearch.common.io.stream.StreamInput;
import org.elasticsearch.common.xcontent.ToXContent;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.common.xcontent.XContentFactory;
import org.elasticsearch.common.xcontent.XContentHelper;
import org.elasticsearch.test.ESTestCase;
import java.io.IOException;
import java.util.HashMap;
import java.util.List;
import java.util.Locale;
import java.util.Map;
import static org.hamcrest.Matchers.equalTo;
import static org.hamcrest.Matchers.not;
import static org.hamcrest.Matchers.sameInstance;

public class PutLicenseResponseTests extends ESTestCase {
    public void testSerialization() throws Exception {
        boolean acknowledged = randomBoolean();
        LicensesStatus status = randomFrom(LicensesStatus.VALID, LicensesStatus.INVALID,
            LicensesStatus.EXPIRED);
        Map<String, String[]> ackMessages = randomAckMessages();

        PutLicenseResponse response = new PutLicenseResponse(acknowledged, status, "", ackMessages);

        XContentBuilder contentBuilder = XContentFactory.jsonBuilder();
        response.toXContent(contentBuilder, ToXContent.EMPTY_PARAMS);
        Map<String, Object> map = XContentHelper.convertToMap(BytesReference.bytes(contentBuilder), false,
            contentBuilder.contentType()).v2();
        assertThat(map.containsKey("acknowledged"), equalTo(true));
        boolean actualAcknowledged = (boolean) map.get("acknowledged");
        assertThat(actualAcknowledged, equalTo(acknowledged));
        assertThat(map.containsKey("license_status"), equalTo(true));
        String actualStatus = (String) map.get("license_status");
        assertThat(actualStatus, equalTo(status.name().toLowerCase(Locale.ROOT)));}

    public void testStreamSerialization() throws IOException {
        boolean acknowledged = randomBoolean();
        LicensesStatus status = randomFrom(LicensesStatus.VALID, LicensesStatus.INVALID,
            LicensesStatus.EXPIRED);
        Map<String, String[]> ackMessages = randomAckMessages();

        PutLicenseResponse response = new PutLicenseResponse(acknowledged, status, "", ackMessages);

        XContentBuilder contentBuilder = XContentFactory.jsonBuilder();
        response.toXContent(contentBuilder, ToXContent.EMPTY_PARAMS);
        Map<String, Object> map = XContentHelper.convertToMap(BytesReference.bytes(contentBuilder), false,
            contentBuilder.contentType()).v2();
        assertThat(map.containsKey("acknowledged"), equalTo(true));
        boolean actualAcknowledged = (boolean) map.get("acknowledged");
        assertThat(actualAcknowledged, equalTo(acknowledged));
        assertThat(map.containsKey("license_status"), equalTo(true));
        String actualStatus = (String) map.get("license_status");
        assertThat(actualStatus, equalTo(status.name().toLowerCase(Locale.ROOT)));}

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        PutLicenseResponse response = new PutLicenseResponse(acknowledged, status, "", ackMessages);

        XContentBuilder contentBuilder = XContentFactory.jsonBuilder();
        response.toXContent(contentBuilder, ToXContent.EMPTY_PARAMS);
        Map<String, Object> map = XContentHelper.convertToMap(BytesReference.bytes(contentBuilder), false,
            contentBuilder.contentType()).v2();
        assertThat(map.containsKey("acknowledged"), equalTo(true));
        boolean actualAcknowledged = (boolean) map.get("acknowledged");
        assertThat(actualAcknowledged, equalTo(acknowledged));
        assertThat(map.containsKey("license_status"), equalTo(true));
        String actualStatus = (String) map.get("license_status");
        assertThat(actualStatus, equalTo(status.name().toLowerCase(Locale.ROOT)));}

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            LicensesStatus.EXPIRED);
        Map<String, String[]> ackMessages = randomAckMessages();

        PutLicenseResponse response = new PutLicenseResponse(acknowledged, status, "", ackMessages);

        XContentBuilder contentBuilder = XContentFactory.jsonBuilder();
        response.toXContent(contentBuilder, ToXContent.EMPTY_PARAMS);
        Map<String, Object> map = XContentHelper.convertToMap(BytesReference.bytes(contentBuilder), false,
            contentBuilder.contentType()).v2();
        assertThat(map.containsKey("acknowledged"), equalTo(true));
        boolean actualAcknowledged = (boolean) map.get("acknowledged");
        assertThat(actualAcknowledged, equalTo(acknowledged));
        assertThat(map.containsKey("license_status"), equalTo(true));
        String actualStatus = (String) map.get("license_status");
        assertThat(actualStatus, equalTo(status.name().toLowerCase(Locale.ROOT)));}

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        boolean acknowledged = randomBoolean();
        LicensesStatus status = randomFrom(LicensesStatus.VALID, LicensesStatus.INVALID,
            LicensesStatus.EXPIRED);
        Map<String, String[]> ackMessages = randomAckMessages();

        PutLicenseResponse response = new PutLicenseResponse(acknowledged, status, "", ackMessages);

        XContentBuilder contentBuilder = XContentFactory.jsonBuilder();
        response.toXContent(contentBuilder, ToXContent.EMPTY_PARAMS);
        Map<String, Object> map = XContentHelper.convertToMap(BytesReference.bytes(contentBuilder), false,
            contentBuilder.contentType()).v2();
        assertThat(map.containsKey("acknowledged"), equalTo(true));
        boolean actualAcknowledged = (boolean) map.get("acknowledged");
        assertThat(actualAcknowledged, equalTo(acknowledged));
        assertThat(map.containsKey("license_status"), equalTo(true));
        String actualStatus = (String) map.get("license_status");
        assertThat(actualStatus, equalTo(status.name().toLowerCase(Locale.ROOT)));}

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        boolean acknowledged = randomBoolean();
        LicensesStatus status = randomFrom(LicensesStatus.VALID, LicensesStatus.INVALID,
            LicensesStatus.EXPIRED);
        Map<String, String[]> ackMessages = randomAckMessages();

        PutLicenseResponse response = new PutLicenseResponse(acknowledged, status, "", ackMessages);

        XContentBuilder contentBuilder = XContentFactory.jsonBuilder();
        response.toXContent(contentBuilder, ToXContent.EMPTY_PARAMS);
        Map<String, Object> map = XContentHelper.convertToMap(BytesReference.bytes(contentBuilder), false,
            contentBuilder.contentType()).v2();
        assertThat(map.containsKey("acknowledged"), equalTo(true));
        boolean actualAcknowledged = (boolean) map.get("acknowledged");
        assertThat(actualAcknowledged, equalTo(acknowledged));
        assertThat(map.containsKey("license_status"), equalTo(true));
        String actualStatus = (String) map.get("license_status");
        assertThat(actualStatus, equalTo(status.name().toLowerCase(Locale.ROOT)));}

    public void testStreamSerialization() throws IOException {
        boolean acknowledged = randomBoolean();
        LicensesStatus status = randomFrom(LicensesStatus.VALID, LicensesStatus.INVALID,
            LicensesStatus.EXPIRED);
        Map<String, String[]> ackMessages = randomAckMessages();

        PutLicenseResponse response = new PutLicenseResponse(acknowledged, status, "", ackMessages);

        XContentBuilder contentBuilder = XContentFactory.jsonBuilder();
        response.toXContent(contentBuilder, ToXContent.EMPTY_PARAMS);
        Map<String, Object> map = XContentHelper.convertToMap(BytesReference.bytes(contentBuilder), false,
            contentBuilder.contentType()).v2();
        assertThat(map.containsKey("acknowledged"), equalTo(true));
        boolean actualAcknowledged = (boolean) map.get("acknowledged");
        assertThat(actualAcknowledged, equalTo(acknowledged));
        assertThat(map.containsKey("license_status"), equalTo(true));
        String actualStatus = (String) map.get("license_status");
        assertThat(actualStatus, equalTo(status.name().toLowerCase(Locale.ROOT)));}

    public void testStreamSerialization() throws IOException {
        boolean acknowledged = randomBoolean();
        LicensesStatus status = randomFrom(LicensesStatus.VALID, LicensesStatus.INVALID,
            LicensesStatus.EXPIRED);
        Map<String, String[]> ackMessages = randomAckMessages();

        PutLicenseResponse response = new PutLicenseResponse(acknowledged, status, "", ackMessages);

        XContentBuilder contentBuilder = XContentFactory.jsonBuilder();
        response.toXContent(contentBuilder, ToXContent.EMPTY_PARAMS);
        Map<String, Object> map = XContentHelper.convertToMap(BytesReference.bytes(contentBuilder), false,
            contentBuilder.contentType()).v2();
        assertThat(map.containsKey("acknowledged"), equalTo(true));
        boolean actualAcknowledged = (boolean) map.get("acknowledged");
        assertThat(actualAcknowledged, equalTo(acknowledged));
        assertThat(map.containsKey("license_status"), equalTo(true));
        String actualStatus = (String) map.get("license_status");
        assertThat(actualStatus, equalTo(status.name().toLowerCase(Locale.ROOT)));}
// write the stream so that we can attempt to read it back
BytesStreamOutput output = new BytesStreamOutput();

PutLicenseResponse response = new PutLicenseResponse(acknowledged, status, "", ackMessages);
// write it out
response.writeTo(output);

StreamInput input = output.bytes().streamInput();

// read it back in
response.readFrom(input);

assertThat(response.isAcknowledged(), equalTo(acknowledged));
assertThat(response.status(), equalTo(status));
assertThat(response.acknowledgeMessages(), not(sameInstance(ackMessages)));
assertThat(response.acknowledgeMessages().size(), equalTo(ackMessages.size()));

for (String key : ackMessages.keySet()) {
    assertArrayEquals(ackMessages.get(key), response.acknowledgeMessages().get(key));
}

private static Map<String, String[]> randomAckMessages() {
    int nFeatures = randomIntBetween(1, 5);

    Map<String, String[]> ackMessages = new HashMap<>();

    for (int i = 0; i < nFeatures; i++) {
        String feature = randomAlphaOfLengthBetween(9, 15);
        int nMessages = randomIntBetween(1, 5);
        String[] messages = new String[nMessages];
        for (int j = 0; j < nMessages; j++) {
            messages[j] = randomAlphaOfLengthBetween(10, 30);
        }
        ackMessages.put(feature, messages);
    }

    return ackMessages;
}

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 */
package org.elasticsearch.license;
import org.elasticsearch.analysis.common.CommonAnalysisPlugin;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.plugins.Plugin;
import org.elasticsearch.test.ESIntegTestCase;
import org.elasticsearch.transport.Netty4Plugin;
import org.elasticsearch.xpack.core.LocalStateCompositeXPackPlugin;

import java.util.Arrays;
import java.util.Collection;
import static org.elasticsearch.test.ESIntegTestCase.Scope.TEST;

@ESIntegTestCase.ClusterScope(scope = TEST, numDataNodes = 0, numClientNodes = 0, maxNumDataNodes = 0, transportClientRatio = 0,
        autoMinMasterNodes = false)
public class LicenseServiceClusterNotRecoveredTests extends AbstractLicensesIntegrationTestCase {

    @Override
    protected Settings nodeSettings(int nodeOrdinal) {
        return nodeSettingsBuilder(nodeOrdinal).build();
    }

    @Override
    protected boolean addMockHttpTransport() {
        return false;
    }

    private Settings.Builder nodeSettingsBuilder(int nodeOrdinal) {
        return Settings.builder()
                .put(super.nodeSettings(nodeOrdinal))
                .put("node.data", true)
                .put("resource.reload.interval.high", "500ms"); // for license mode file watcher
    }

    @Override
    protected Collection<Class<? extends Plugin>> nodePlugins() {
        return Arrays.asList(LocalStateCompositeXPackPlugin.class, CommonAnalysisPlugin.class,
                Netty4Plugin.class);
    }

    @Override
    protected Collection<Class<? extends Plugin>> transportClientPlugins() {
        return nodePlugins();
    }

    public void testClusterNotRecovered() throws Exception {
        logger.info("--> start one master out of two [recovery state]");
        internalCluster().startNode(nodeSettingsBuilder(0).put("discovery.zen.minimum_master_nodes",

2).put("node.master", true));
    logger.info("--> start second master out of two [recovered state]");
    internalCluster().startNode(nodeSettingsBuilder(1).put("discovery.zen.minimum_master_nodes",
2).put("node.master", true));
    assertLicenseActive(true);
} }
*/
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* or more contributor license agreements. Licensed under the Elastic License;
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*/
package org.elasticsearch.license;

import org.elasticsearch.action.ActionListener;
import org.elasticsearch.cluster.ack.ClusterStateUpdateResponse;
import org.elasticsearch.cluster.service.ClusterService;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.unit.TimeValue;
import org.elasticsearch.plugins.Plugin;
import org.elasticsearch.test.ESSingleNodeTestCase;
import org.elasticsearch.xpack.core.LocalStateCompositeXPackPlugin;
import org.elasticsearch.xpack.core.XPackSettings;
import org.junit.Before;
import java.util.Collection;
import java.util.Collections;
import java.util.concurrent.CountDownLatch;
import java.util.concurrent.atomic.AtomicBoolean;
import static org.hamcrest.Matchers.equalTo;
import static org.hamcrest.Matchers.not;

public class LicensesManagerServiceTests extends ESSingleNodeTestCase {

    @Override
    protected Collection<Class<? extends Plugin>> getPlugins() {
        return Collections.singletonList(LocalStateCompositeXPackPlugin.class);
    }

    @Override
    protected Settings nodeSettings() {
        return Settings.builder()
                .put(super.nodeSettings())
                .put(XPackSettings.SECURITY_ENABLED.getKey(), false)
                .put(XPackSettings.MONITORING_ENABLED.getKey(), false)
                .put(XPackSettings.WATCHER_ENABLED.getKey(), false)
                .put(XPackSettings.GRAPH_ENABLED.getKey(), false)
                .build();
    }
@Override
protected boolean resetNodeAfterTest() {
    return true;
}

@Before
public void waitForTrialLicenseToBeGenerated() throws Exception {
    assertBusy(() ->
        assertNot Null(getInstanceFromNode(ClusterService.class).state().metaData().custom(LicensesMetaData.TYPE)));
}

public void testStoreAndGetLicenses() throws Exception {
    LicenseService licenseService = getInstanceFromNode(LicenseService.class);
    ClusterService clusterService = getInstanceFromNode(ClusterService.class);
    License goldLicense = TestUtils.generateSignedLicense("gold", TimeValue.timeValueHours(1));
    TestUtils.registerAndAckSignedLicenses(licenseService, goldLicense, LicensesStatus.VALID);
    License silverLicense = TestUtils.generateSignedLicense("silver", TimeValue.timeValueHours(2));
    TestUtils.registerAndAckSignedLicenses(licenseService, silverLicense, LicensesStatus.VALID);
    License platinumLicense = TestUtils.generateSignedLicense("platinum", TimeValue.timeValueHours(1));
    License goldLicense = TestUtils.generateSignedLicense("gold", TimeValue.timeValueHours(1));
    TestUtils.registerAndAckSignedLicenses(licenseService, goldLicense, LicensesStatus.VALID);
    License platinumLicense = TestUtils.generateSignedLicense("platinum", TimeValue.timeValueHours(1));
    TestUtils.registerAndAckSignedLicenses(licenseService, platinumLicense, LicensesStatus.VALID);
    LicensesMetaData licensesMetaData = clusterService.state().metaData().custom(LicensesMetaData.TYPE);
    assertThat(licensesMetaData.getLicense(), equalTo(platinumLicense));
    final License getLicenses = licenseService.getLicense();
    assertThat(getLicenses, equalTo(platinumLicense));
}

// TODO: Add test/feature blocking the registration of basic license

public void testEffectiveLicenses() throws Exception {
    final LicenseService licenseService = getInstanceFromNode(LicenseService.class);
    final ClusterService clusterService = getInstanceFromNode(ClusterService.class);
    License goldLicense = TestUtils.generateSignedLicense("gold", TimeValue.timeValueSeconds(5));
    // put gold license
    TestUtils.registerAndAckSignedLicenses(licenseService, goldLicense, LicensesStatus.VALID);
    LicensesMetaData licensesMetaData = clusterService.state().metaData().custom(LicensesMetaData.TYPE);
    assertThat(LicenseService.getLicense(licensesMetaData), equalTo(goldLicense));
    License platinumLicense = TestUtils.generateSignedLicense("platinum", TimeValue.timeValueSeconds(3));
    // put platinum license
    TestUtils.registerAndAckSignedLicenses(licenseService, platinumLicense, LicensesStatus.VALID);
    licensesMetaData = clusterService.state().metaData().custom(LicensesMetaData.TYPE);
    assertThat(LicenseService.getLicense(licensesMetaData), equalTo(platinumLicense));
}
public void testInvalidLicenseStorage() throws Exception {
    LicenseService licenseService = getInstanceFromNode(LicenseService.class);
    ClusterService clusterService = getInstanceFromNode(ClusterService.class);
    License signedLicense = TestUtils.generateSignedLicense(TimeValue.timeValueMinutes(2));

    // modify content of signed license
    License tamperedLicense = License.builder()
        .fromLicenseSpec(signedLicense, signedLicense.signature())
        .expiryDate(signedLicense.expiryDate() + 10 * 24 * 60 * 60 * 1000L)
        .validate()
        .build();

    TestUtils.registerAndAckSignedLicenses(licenseService, tamperedLicense, LicensesStatus.INVALID);

    // ensure that the invalid license never made it to cluster state
    LicensesMetaData licensesMetaData = clusterService.state().metaData().custom(LicensesMetaData.TYPE);
    assertThat(licensesMetaData.getLicense(), not(equalTo(tamperedLicense)));
}

public void testRemoveLicenses() throws Exception {
    LicenseService licenseService = getInstanceFromNode(LicenseService.class);
    ClusterService clusterService = getInstanceFromNode(ClusterService.class);

    // generate signed licenses
    License license = TestUtils.generateSignedLicense(TimeValue.timeValueHours(1));
    TestUtils.registerAndAckSignedLicenses(licenseService, license, LicensesStatus.VALID);
    LicensesMetaData licensesMetaData = clusterService.state().metaData().custom(LicensesMetaData.TYPE);
    assertThat(licensesMetaData.getLicense(), not(LicensesMetaData.LICENSE_TOMBSTONE));

    // remove signed licenses
    removeAndAckSignedLicenses(licenseService);
    licensesMetaData = clusterService.state().metaData().custom(LicensesMetaData.TYPE);
    assertThat(licensesMetaData.getLicense(), equalTo(LicensesMetaData.LICENSE_TOMBSTONE));
}

private void removeAndAckSignedLicenses(final LicenseService licenseService) {
    final CountDownLatch latch = new CountDownLatch(1);
    final AtomicBoolean success = new AtomicBoolean(false);
    licenseService.removeLicense(new DeleteLicenseRequest(), new ActionListener<ClusterStateUpdateResponse>() {
        @Override
        public void onResponse(ClusterStateUpdateResponse clusterStateUpdateResponse) {
            if (clusterStateUpdateResponse.isAcknowledged()) {
                success.set(true);
            }
            latch.countDown();
        }
    });
}
@Override
    public void onFailure(Exception throwable) {
        latch.countDown();
    }
    }
} catch (InterruptedException e) {
    fail(e.getMessage());
}
    assertThat("remove license(s) failed", success.get(), equalTo(true));
    }
    }
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 */
package org.elasticsearch.license;

import org.elasticsearch.common.bytes.BytesArray;
import org.elasticsearch.common.bytes.BytesReference;
import org.elasticsearch.common.xcontent.ToXContent;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.common.xcontent.XContentFactory;
import org.elasticsearch.common.xcontent.XContentHelper;
import org.elasticsearch.common.xcontent.XContentType;
import org.elasticsearch.test.ESTestCase;
import java.nio.charset.StandardCharsets;
import java.util.Collections;
import java.util.Map;
import java.util.UUID;
import static org.hamcrest.core.IsEqual.equalTo;
import static org.hamcrest.core.IsNull.notNullValue;
import static org.hamcrest.core.IsNull.nullValue;

public class LicenseSerializationTests extends ESTestCase {
    public void testSimpleIssueExpiryDate() throws Exception {
        long now = System.currentTimeMillis();
        String issueDate = TestUtils.dateMathString("now", now);
        String expiryDate = TestUtils.dateMathString("now+10d/d", now);
        String licenseSpecs = TestUtils.generateLicenseSpecString(new TestUtils.LicenseSpec(issueDate, expiryDate));
        License generatedLicense = License.fromSource(new BytesArray(licenseSpecs.getBytes(StandardCharsets.UTF_8)), XContentType.JSON);
        assertThat(generatedLicense.issueDate(), equalTo(DateUtils.beginningOfTheDay(issueDate)));
        assertThat(generatedLicense.expiryDate(), equalTo(DateUtils.endOfTheDay(expiryDate)));
    }
}
public void testLicensesFields() throws Exception {
    TestUtils.LicenseSpec randomLicenseSpec =
    TestUtils.generateRandomLicenseSpec(License.VERSION_START);
    String licenseSpecsSource = TestUtils.generateLicenseSpecString(randomLicenseSpec);
    final License fromSource =
    License.fromSource(new BytesArray(licenseSpecsSource.getBytes(StandardCharsets.UTF_8)),
    XContentType.JSON);
    TestUtils.assertLicenseSpec(randomLicenseSpec, fromSource);
}

public void testLicenseRestView() throws Exception {
    long now = System.currentTimeMillis();
    String expiredLicenseExpiryDate = TestUtils.dateMathString("now-1d/d", now);
    String validLicenseIssueDate = TestUtils.dateMathString("now-10d/d", now);
    String invalidLicenseIssueDate = TestUtils.dateMathString("now+1d/d", now);
    String validLicenseExpiryDate = TestUtils.dateMathString("now+2d/d", now);

    License license = TestUtils.generateLicenses(new TestUtils.LicenseSpec(validLicenseIssueDate,
    expiredLicenseExpiryDate));
    XContentBuilder builder = XContentFactory.contentBuilder(XContentType.JSON);
    license.toXContent(builder, new
    ToXContent.MapParams(Collections.singletonMap(License.REST_VIEW_MODE, "true")));
    builder.flush();
    Map<String, Object> map = XContentHelper.convertToMap(BytesReference.bytes(builder), false,
    builder.contentType()).v2();
    // should have an extra status field, human readable issue_data and expiry_date
    assertThat(map.get("status"), notNullValue());
    assertThat(map.get("issue_date"), notNullValue());
    assertThat(map.get("expiry_date"), nullValue());
    builder = XContentFactory.contentBuilder(XContentType.JSON);
    license.toXContent(builder, new
    ToXContent.MapParams(Collections.singletonMap(License.REST_VIEW_MODE, "true")));
    builder.flush();
    map = XContentHelper.convertToMap(BytesReference.bytes(builder), false, builder.contentType()).v2();
    // should have an extra status field, human readable issue_data and expiry_date
    license = TestUtils.generateLicenses(new TestUtils.LicenseSpec(validLicenseIssueDate,
    validLicenseExpiryDate));
    builder = XContentFactory.contentBuilder(XContentType.JSON);
    license.toXContent(builder, new
    ToXContent.MapParams(Collections.singletonMap(License.REST_VIEW_MODE, "true")));
    builder.flush();
    map = XContentHelper.convertToMap(BytesReference.bytes(builder), false, builder.contentType()).v2();
    // should have an extra status field, human readable issue_data and expiry_date
assertThat(map.get("status"), notNullValue());
assertThat(map.get("issue_date"), notNullValue());
assertThat(map.get("expiry_date"), notNullValue());
assertThat(map.get("status"), equalTo("active"));
builder = XContentFactory.contentBuilder(XContentType.JSON);
license.toXContent(builder, ToXContent.EMPTY_PARAMS);
builder.flush();
map = XContentHelper.convertToMap(BytesReference.bytes(builder), false, builder.contentType()).v2();
assertThat(map.get("status"), nullValue());

license = TestUtils.generateLicenses(new TestUtils.LicenseSpec(invalidLicenseIssueDate,
validLicenseExpiryDate));
builder = XContentFactory.contentBuilder(XContentType.JSON);
license.toXContent(builder, new
ToXContent.MapParams(Collections.singletonMap(License.REST_VIEW_MODE, "true")));
builder.flush();
map = XContentHelper.convertToMap(BytesReference.bytes(builder), false, builder.contentType()).v2();

// should have an extra status field, human readable issue_data and expiry_date
assertThat(map.get("status"), notNullValue());
assertThat(map.get("issue_date"), notNullValue());
assertThat(map.get("expiry_date"), notNullValue());
assertThat(map.get("status"), equalTo("invalid"));
builder = XContentFactory.contentBuilder(XContentType.JSON);
license.toXContent(builder, ToXContent.EMPTY_PARAMS);
builder.flush();
map = XContentHelper.convertToMap(BytesReference.bytes(builder), false, builder.contentType()).v2();
assertThat(map.get("status"), nullValue());
}

public void testLicenseRestViewNonExpiringBasic() throws Exception {
    long now = System.currentTimeMillis();

    License.Builder specBuilder = License.builder()
        .uid(UUID.randomUUID().toString())
        .issuedTo("test")
        .maxNodes(1000)
        .issueDate(now)
        .type("basic")
        .expiryDate(LicenseService.BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS);
    License license = SelfGeneratedLicense.create(specBuilder, License.VERSION_CURRENT);
    XContentBuilder builder = XContentFactory.contentBuilder(XContentType.JSON);
    license.toXContent(builder, new
    ToXContent.MapParams(Collections.singletonMap(License.REST_VIEW_MODE, "true")));
    builder.flush();
    Map<String, Object> map = XContentHelper.convertToMap(BytesReference.bytes(builder), false,
builder.contentType()).v2();

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assertThat(map.get("status"), notNullValue());
assertThat(map.get("type"), equalTo("basic"));
assertThat(map.get("issue_date"), notNullValue());
assertThat(map.get("status"), equalTo("active"));
builder = XContentFactory.contentBuilder(XContentType.JSON);
license.toXContent(builder, ToXContent.EMPTY_PARAMS);
builder.flush();
map = XContentHelper.convertToMap(BytesReference.bytes(builder), false, builder.contentType()).v2();
assertThat(map.get("status"), nullValue());
{ }
}
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*/
package org.elasticsearch.license;
import org.elasticsearch.test.ESTestCase;
import org.elasticsearch.watcher.FileWatcher;
import org.elasticsearch.watcher.ResourceWatcherService;
import org.junit.Before;
import java.nio.file.Path;
import static org.hamcrest.Matchers.equalTo;
import static org.mockito.Matchers.any;
import static org.mockito.Matchers.eq;
import static org.mockito.Mockito.mock;
import static org.mockito.Mockito.times;
import static org.mockito.Mockito.verify;
import static org.mockito.Mockito.verifyZeroInteractions;
public class LicenseOperationModeUpdateTests extends ESTestCase {

private OperationModeFileWatcher operationModeFileWatcher;
private Path licenseModeFile;
private ResourceWatcherService resourceWatcherService;

@Before
public void init() throws Exception {
    licenseModeFile = createTempFile();
    resourceWatcherService = mock(ResourceWatcherService.class);

    operationModeFileWatcher = new OperationModeFileWatcher(resourceWatcherService, licenseModeFile,
            () -> {});
public void testLicenseOperationModeUpdate() throws Exception {
    String type = randomFrom("trial", "basic", "standard", "gold", "platinum");
    License license = License.builder()
        .uid("id")
        .expiryDate(0)
        .issueDate(0)
        .issuedTo("elasticsearch")
        .issuer("issuer")
        .type(type)
        .maxNodes(1)
        .build();

    assertThat(license.operationMode(), equalTo(License.OperationMode.resolve(type)));
    OperationModeFileWatcherTests.writeMode("gold", licenseModeFile);
    license.setOperationModeFileWatcher(operationModeFileWatcher);
    verifyZeroInteractions(resourceWatcherService);
    assertThat(license.operationMode(), equalTo(License.OperationMode.resolve(type)));
}

public void testCloudInternalLicenseOperationModeUpdate() throws Exception {
    License license = License.builder()
        .uid("id")
        .expiryDate(0)
        .issueDate(0)
        .issuedTo("elasticsearch")
        .issuer("issuer")
        .type("cloud_internal")
        .maxNodes(1)
        .build();

    assertThat(license.operationMode(), equalTo(License.OperationMode.PLATINUM));
    OperationModeFileWatcherTests.writeMode("gold", licenseModeFile);
    license.setOperationModeFileWatcher(operationModeFileWatcher);
    verify(resourceWatcherService, times(1)).add(any(FileWatcher.class),
        eq(ResourceWatcherService.Frequency.HIGH));
    assertThat(license.operationMode(), equalTo(License.OperationMode.GOLD));
}

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 */
package org.elasticsearch.license;

import org.elasticsearch.analysis.common.CommonAnalysisPlugin;
import org.elasticsearch.cluster.ClusterState;
import org.elasticsearch.cluster.ClusterStateUpdateTask;
import org.elasticsearch.cluster.metadata.MetaData;
import org.elasticsearch.cluster.service.ClusterService;
import org.elasticsearch.common.Nullable;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.plugins.Plugin;
import org.elasticsearch.test.ESIntegTestCase;
import org.elasticsearch.xpack.core.LocalStateCompositeXPackPlugin;
import org.elasticsearch.xpack.core.XPackClientPlugin;
import org.elasticsearch.xpack.core.XPackSettings;
import java.util.Arrays;
import java.util.Collection;
import java.util.concurrent.CountDownLatch;

public abstract class AbstractLicensesIntegrationTestCase extends ESIntegTestCase {

    @Override
    protected Settings nodeSettings(int nodeOrdinal) {
        return Settings.builder().put(XPackSettings.SECURITY_ENABLED.getKey(), false).build();
    }

    @Override
    protected Collection<Class<? extends Plugin>> nodePlugins() {
        return Arrays.asList(LocalStateCompositeXPackPlugin.class, CommonAnalysisPlugin.class);
    }

    @Override
    protected Collection<Class<? extends Plugin>> transportClientPlugins() {
        return Arrays.asList(XPackClientPlugin.class, CommonAnalysisPlugin.class);
    }

    @Override
    protected Settings transportClientSettings() {
        // Plugin should be loaded on the transport client as well
        return nodeSettings(0);
    }

    protected void putLicense(final License license) throws InterruptedException {
        final CountDownLatch latch = new CountDownLatch(1);
        ClusterService clusterService = internalCluster().getInstance(ClusterService.class,
                internalCluster().getMasterName());
        clusterService.submitStateUpdateTask("putting license", new ClusterStateUpdateTask() {
            @Override
            public void clusterStateProcessed(String source, ClusterState oldState, ClusterState newState) {
                latch.countDown();
            }
        });
    }
@Override
public ClusterState execute(ClusterState currentState) throws Exception {
    MetaData.Builder mdBuilder = MetaData.builder(currentState.metaData());
    mdBuilder.putCustom(LicensesMetaData.TYPE, new LicensesMetaData(license, null));
    return ClusterState.builder(currentState).metaData(mdBuilder).build();
}

@Override
public void onFailure(String source, @Nullable Exception e) {
    logger.error("error on metaData cleanup after test", e);
}
}
latch.await();
}

protected void putLicenseTombstone() throws InterruptedException {
    putLicense(LicensesMetaData.LICENSE_TOMBSTONE);
}

protected void wipeAllLicenses() throws InterruptedException {
    final CountDownLatch latch = new CountDownLatch(1);
    ClusterService clusterService = internalCluster().getInstance(ClusterService.class,
    internalCluster().getMasterName());
    clusterService.submitStateUpdateTask("delete licensing metadata", new ClusterStateUpdateTask() {
        @Override
        public void clusterStateProcessed(String source, ClusterState oldState, ClusterState newState) {
            latch.countDown();
        }
    });
}

protected void assertLicenseActive(boolean active) throws InterruptedException {
    boolean success = awaitBusy(() -> {
        for (XPackLicenseState licenseState : internalCluster().getDataNodeInstances(XPackLicenseState.class)) {
            ...
        }
    })
}
if (licenseState.isActive() == active) {
    return true;
}
return false;
});
assertTrue(success);
}

package org.elasticsearch.license;

import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.license.License.OperationMode;
import org.elasticsearch.test.ESTestCase;
import org.elasticsearch.xpack.core.XPackField;
import org.elasticsearch.xpack.core.XPackSettings;
import java.util.Arrays;
import java.util.function.Predicate;
import java.util.stream.Collectors;
import static org.elasticsearch.license.License.OperationMode.BASIC;
import static org.elasticsearch.license.License.OperationMode.GOLD;
import static org.elasticsearch.license.License.OperationMode.MISSING;
import static org.elasticsearch.license.License.OperationMode.PLATINUM;
import static org.elasticsearch.license.License.OperationMode.STANDARD;
import static org.elasticsearch.license.License.OperationMode.TRIAL;
import static org.elasticsearch.license.License.OperationMode.TRIAL;
import static org.hamcrest.Matchers.is;

/**
 * Unit tests for the {@link XPackLicenseState}
 */
public class XPackLicenseStateTests extends ESTestCase {

 /** Creates a license state with the given license type and active state, and checks the given method returns expected. */
    void assertAllowed(OperationMode mode, boolean active, Predicate<XPackLicenseState> predicate, boolean expected) {
        XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
        licenseState.update(mode, active);
        assertEquals(expected, predicate.test(licenseState));
    }
}
/**
 * Checks the ack message going from the from license type to to license type.
 * TODO: check the actual messages, not just the number of them! This was copied from previous license tests...
 */

void assertAckMessages(String feature, OperationMode from, OperationMode to, int expectedMessages) {
    String[] gotMessages = XPackLicenseState.ACKNOWLEDGMENT_MESSAGES.get(feature).apply(from, to);
    assertEquals(expectedMessages, gotMessages.length);
}

static <T> T randomFrom(T[] values, Predicate<T> filter) {
    return randomFrom(Arrays.stream(values).filter(filter).collect(Collectors.toList()));
}

static OperationMode randomMode() {
    return randomFrom(OperationMode.values());
}

public static OperationMode randomTrialStandardGoldOrPlatinumMode() {
    return randomFrom(TRIAL, STANDARD, GOLD, PLATINUM);
}

public static OperationMode randomTrialOrPlatinumMode() {
    return randomFrom(TRIAL, PLATINUM);
}

public static OperationMode randomTrialBasicStandardGoldOrPlatinumMode() {
    return randomFrom(TRIAL, BASIC, STANDARD, GOLD, PLATINUM);
}

public static OperationMode randomBasicStandardOrGold() {
    return randomFrom(BASIC, STANDARD, GOLD);
}

public void testSecurityDefaults() {
    XPackLicenseState licenseState =
        new XPackLicenseState(Settings.builder().put(XPackSettings.SECURITY_ENABLED.getKey(),
                true).build());
    assertThat(licenseState.isAuthAllowed(), is(true));
    assertThat(licenseState.isIpFilteringAllowed(), is(true));
    assertThat(licenseState.isAuditingAllowed(), is(true));
    assertThat(licenseState.isStatsAndHealthAllowed(), is(true));
    assertThat(licenseState.isDocumentAndFieldLevelSecurityAllowed(), is(true));
    assertThat(licenseState.allowedRealmType(), is(XPackLicenseState.AllowedRealmType.ALL));
    assertThat(licenseState.isCustomRoleProvidersAllowed(), is(true));

    licenseState =
        new XPackLicenseState(Settings.builder().put(XPackSettings.TRANSPORT_SSL_ENABLED.getKey(),
            true).build());
    assertThat(licenseState.isIpFilteringAllowed(), is(true));
    assertThat(licenseState.isAuditingAllowed(), is(true));
    assertThat(licenseState.isStatsAndHealthAllowed(), is(true));
    assertThat(licenseState.isDocumentAndFieldLevelSecurityAllowed(), is(true));
    assertThat(licenseState.allowedRealmType(), is(XPackLicenseState.AllowedRealmType.ALL));
    assertThat(licenseState.isCustomRoleProvidersAllowed(), is(true));
}

/
true).build();
    
    licenseState = new XPackLicenseState(Settings.EMPTY);
    assertThat(licenseState.isAuthAllowed(), is(true));
    assertThat(licenseState.isIpFilteringAllowed(), is(true));
    assertThat(licenseState.isAuditingAllowed(), is(true));
    assertThat(licenseState.isStatsAndHealthAllowed(), is(true));
    assertThat(licenseState.isDocumentAndFieldLevelSecurityAllowed(), is(true));
    assertThat(licenseState.allowedRealmType(), is(XPackLicenseState.AllowedRealmType.ALL));
    assertThat(licenseState.isCustomRoleProvidersAllowed(), is(true));

    public void testSecurityBasic() {
        XPackLicenseState licenseState = new XPackLicenseState(randomFrom(Settings.EMPTY,
            Settings.builder().put(XPackSettings.SECURITY_ENABLED.getKey(), true).build()));
        licenseState.update(BASIC, true);
        assertThat(licenseState.isAuthAllowed(), is(false));
        assertThat(licenseState.isIpFilteringAllowed(), is(false));
        assertThat(licenseState.isAuditingAllowed(), is(false));
        assertThat(licenseState.isStatsAndHealthAllowed(), is(true));
        assertThat(licenseState.isDocumentAndFieldLevelSecurityAllowed(), is(false));
        assertThat(licenseState.allowedRealmType(), is(XPackLicenseState.AllowedRealmType.NONE));
        assertThat(licenseState.isCustomRoleProvidersAllowed(), is(false));
    }

    public void testSecurityBasicExpired() {
        XPackLicenseState licenseState = new XPackLicenseState(randomFrom(Settings.EMPTY,
            Settings.builder().put(XPackSettings.SECURITY_ENABLED.getKey(), true).build()));
        licenseState.update(BASIC, false);
        assertThat(licenseState.isAuthAllowed(), is(false));
        assertThat(licenseState.isIpFilteringAllowed(), is(false));
        assertThat(licenseState.isAuditingAllowed(), is(false));
        assertThat(licenseState.isStatsAndHealthAllowed(), is(false));
        assertThat(licenseState.isDocumentAndFieldLevelSecurityAllowed(), is(false));
        assertThat(licenseState.allowedRealmType(), is(XPackLicenseState.AllowedRealmType.NONE));
        assertThat(licenseState.isCustomRoleProvidersAllowed(), is(false));
    }

    public void testSecurityStandard() {
XPackLicenseState licenseState = new XPackLicenseState(randomFrom(Settings.EMPTY,
  Settings.builder().put(XPackSettings.SECURITY_ENABLED.getKey(), true).build()));
licenseState.update(STANDARD, true);

assertThat(licenseState.isAuthAllowed(), is(true));
assertThat(licenseState.isIpFilteringAllowed(), is(false));
assertThat(licenseState.isAuditingAllowed(), is(false));
assertThat(licenseState.isStatsAndHealthAllowed(), is(true));
assertThat(licenseState.isDocumentAndFieldLevelSecurityAllowed(), is(false));
assertThat(licenseState.allowedRealmType(), is(XPackLicenseState.AllowedRealmType.NATIVE));
assertThat(licenseState.isCustomRoleProvidersAllowed(), is(false));
}

public void testSecurityStandardExpired() {
  XPackLicenseState licenseState = new XPackLicenseState(randomFrom(Settings.EMPTY,
  Settings.builder().put(XPackSettings.SECURITY_ENABLED.getKey(), true).build()));
licenseState.update(STANDARD, false);

assertThat(licenseState.isAuthAllowed(), is(true));
assertThat(licenseState.isIpFilteringAllowed(), is(false));
assertThat(licenseState.isAuditingAllowed(), is(false));
assertThat(licenseState.isStatsAndHealthAllowed(), is(false));
assertThat(licenseState.isDocumentAndFieldLevelSecurityAllowed(), is(false));
assertThat(licenseState.allowedRealmType(), is(XPackLicenseState.AllowedRealmType.NATIVE));
assertThat(licenseState.isCustomRoleProvidersAllowed(), is(false));
}

public void testSecurityGold() {
  XPackLicenseState licenseState = new XPackLicenseState(randomFrom(Settings.EMPTY,
  Settings.builder().put(XPackSettings.SECURITY_ENABLED.getKey(), true).build()));
licenseState.update(GOLD, true);

assertThat(licenseState.isAuthAllowed(), is(true));
assertThat(licenseState.isIpFilteringAllowed(), is(true));
assertThat(licenseState.isAuditingAllowed(), is(true));
assertThat(licenseState.isStatsAndHealthAllowed(), is(true));
assertThat(licenseState.isDocumentAndFieldLevelSecurityAllowed(), is(false));
assertThat(licenseState.allowedRealmType(), is(XPackLicenseState.AllowedRealmType.DEFAULT));
assertThat(licenseState.isCustomRoleProvidersAllowed(), is(false));
}

public void testSecurityGoldExpired() {
  XPackLicenseState licenseState = new XPackLicenseState(randomFrom(Settings.EMPTY,
  Settings.builder().put(XPackSettings.SECURITY_ENABLED.getKey(), true).build()));
licenseState.update(GOLD, false);

assertThat(licenseState.isAuthAllowed(), is(true));
assertThat(licenseState.isIpFilteringAllowed(), is(true));
```java
assertThat(licenseState.isAuditingAllowed(), is(true));
assertThat(licenseState.isStatsAndHealthAllowed(), is(false));
assertThat(licenseState.isDocumentAndFieldLevelSecurityAllowed(), is(false));
assertThat(licenseState.allowedRealmType(), is(XPackLicenseState.AllowedRealmType.DEFAULT));
assertThat(licenseState.isCustomRoleProvidersAllowed(), is(false));
}

public void testSecurityPlatinum() {
    XPackLicenseState licenseState = new XPackLicenseState(randomFrom(Settings.EMPTY,
            Settings.builder().put(XPackSettings.SECURITY_ENABLED.getKey(), true).build()));
    licenseState.update(PLATINUM, true);
    assertThat(licenseState.isAuthAllowed(), is(true));
    assertThat(licenseState.isIpFilteringAllowed(), is(true));
    assertThat(licenseState.isAuditingAllowed(), is(true));
    assertThat(licenseState.isStatsAndHealthAllowed(), is(true));
    assertThat(licenseState.isDocumentAndFieldLevelSecurityAllowed(), is(true));
    assertThat(licenseState.allowedRealmType(), is(XPackLicenseState.AllowedRealmType.ALL));
    assertThat(licenseState.isCustomRoleProvidersAllowed(), is(true));
}

public void testSecurityPlatinumExpired() {
    XPackLicenseState licenseState = new XPackLicenseState(randomFrom(Settings.EMPTY,
            Settings.builder().put(XPackSettings.SECURITY_ENABLED.getKey(), true).build()));
    licenseState.update(PLATINUM, false);
    assertThat(licenseState.isAuthAllowed(), is(true));
    assertThat(licenseState.isIpFilteringAllowed(), is(true));
    assertThat(licenseState.isAuditingAllowed(), is(true));
    assertThat(licenseState.isStatsAndHealthAllowed(), is(false));
    assertThat(licenseState.isDocumentAndFieldLevelSecurityAllowed(), is(true));
    assertThat(licenseState.allowedRealmType(), is(XPackLicenseState.AllowedRealmType.ALL));
    assertThat(licenseState.isCustomRoleProvidersAllowed(), is(false));
}

public void testSecurityAckBasicToNotGoldOrStandard() {
    OperationMode toMode = randomFrom(OperationMode.values(), mode -> mode != GOLD && mode !=
            STANDARD);
    assertAckMessages(XPackField.SECURITY, BASIC, toMode, 0);
}

public void testSecurityAckAnyToTrialOrPlatinum() {
    assertAckMessages(XPackField.SECURITY, randomMode(), randomTrialOrPlatinumMode(), 0);
}

public void testSecurityAckTrialStandardGoldOrPlatinumToBasic() {
    assertAckMessages(XPackField.SECURITY, randomTrialStandardGoldOrPlatinumMode(), BASIC, 3);
}
```
public void testSecurityAckAnyToStandard() {
    OperationMode from = randomFrom(BASIC, GOLD, PLATINUM, TRIAL);
    assertAckMessages(XPackField.SECURITY, from, STANDARD, 4);
}

public void testSecurityAckBasicStandardTrialOrPlatinumToGold() {
    OperationMode from = randomFrom(BASIC, PLATINUM, TRIAL, STANDARD);
    assertAckMessages(XPackField.SECURITY, from, GOLD, 2);
}

public void testMonitoringAckBasicToAny() {
    assertAckMessages(XPackField.MONITORING, BASIC, randomMode(), 0);
}

public void testMonitoringAckAnyToTrialGoldOrPlatinum() {
    assertAckMessages(XPackField.MONITORING, randomMode(),
                      randomTrialStandardGoldOrPlatinumMode(), 0);
}

public void testMonitoringAckNotBasicToBasic() {
    OperationMode from = randomFrom(STANDARD, GOLD, PLATINUM, TRIAL);
    assertAckMessages(XPackField.MONITORING, from, BASIC, 2);
}

public void testMonitoringAllowed() {
    assertAllowed(randomMode(), true, XPackLicenseState::isMonitoringAllowed, true);
    assertAllowed(randomMode(), false, XPackLicenseState::isMonitoringAllowed, false);
}

public void testMonitoringUpdateRetention() {
    assertAllowed(STANDARD, true, XPackLicenseState::isUpdateRetentionAllowed, true);
    assertAllowed(GOLD, true, XPackLicenseState::isUpdateRetentionAllowed, true);
    assertAllowed(PLATINUM, true, XPackLicenseState::isUpdateRetentionAllowed, true);
    assertAllowed(TRIAL, true, XPackLicenseState::isUpdateRetentionAllowed, true);
    assertAllowed(BASIC, true, XPackLicenseState::isUpdateRetentionAllowed, true);
    assertAllowed(MISSING, false, XPackLicenseState::isUpdateRetentionAllowed, false);
}

public void testWatcherPlatinumGoldTrialStandard() throws Exception {
    assertAllowed(TRIAL, true, XPackLicenseState::isWatcherAllowed, true);
    assertAllowed(GOLD, true, XPackLicenseState::isWatcherAllowed, true);
    assertAllowed(PLATINUM, true, XPackLicenseState::isWatcherAllowed, true);
    assertAllowed(STANDARD, true, XPackLicenseState::isWatcherAllowed, true);
}

public void testWatcherBasicLicense() throws Exception {
    assertAllowed(BASIC, true, XPackLicenseState::isWatcherAllowed, false);
public void testWatcherInactive() {
    assertAllowed(BASIC, false, XPackLicenseState::isWatcherAllowed, false);
}

public void testWatcherInactivePlatinumGoldTrial() throws Exception {
    assertAllowed(TRIAL, false, XPackLicenseState::isWatcherAllowed, false);
    assertAllowed(GOLD, false, XPackLicenseState::isWatcherAllowed, false);
    assertAllowed(PLATINUM, false, XPackLicenseState::isWatcherAllowed, false);
    assertAllowed(STANDARD, false, XPackLicenseState::isWatcherAllowed, false);
}

public void testGraphPlatinumTrial() throws Exception {
    assertAllowed(TRIAL, true, XPackLicenseState::isGraphAllowed, true);
    assertAllowed(PLATINUM, true, XPackLicenseState::isGraphAllowed, true);
}

public void testGraphBasic() throws Exception {
    assertAllowed(BASIC, true, XPackLicenseState::isGraphAllowed, false);
}

public void testGraphStandard() throws Exception {
    assertAllowed(STANDARD, true, XPackLicenseState::isGraphAllowed, false);
}

public void testGraphInactiveBasic() {
    assertAllowed(BASIC, false, XPackLicenseState::isGraphAllowed, false);
}

public void testGraphInactivePlatinumGoldTrial() throws Exception {
    assertAllowed(TRIAL, false, XPackLicenseState::isGraphAllowed, true);
    assertAllowed(GOLD, false, XPackLicenseState::isGraphAllowed, true);
    assertAllowed(PLATINUM, false, XPackLicenseState::isGraphAllowed, false);
    assertAllowed(STANDARD, false, XPackLicenseState::isGraphAllowed, false);
}

public void testMachineLearningPlatinumTrial() throws Exception {
    assertAllowed(TRIAL, true, XPackLicenseState::isMachineLearningAllowed, true);
    assertAllowed(PLATINUM, true, XPackLicenseState::isMachineLearningAllowed, true);
}

public void testMachineLearningBasic() throws Exception {
    assertAllowed(BASIC, true, XPackLicenseState::isMachineLearningAllowed, false);
}

public void testMachineLearningStandard() throws Exception {
    assertAllowed(STANDARD, true, XPackLicenseState::isMachineLearningAllowed, false);
}
public void testMachineLearningInactiveBasic() {
    assertAllowed(BASIC, false, XPackLicenseState::isMachineLearningAllowed, false);
}

public void testMachineLearningInactivePlatinumTrial() throws Exception {
    assertAllowed(TRIAL, false, XPackLicenseState::isMachineLearningAllowed, false);
    assertAllowed(PLATINUM, false, XPackLicenseState::isMachineLearningAllowed, false);
}

public void testLogstashPlatinumGoldTrialStandard() throws Exception {
    assertAllowed(TRIAL, true, XPackLicenseState::isLogstashAllowed, true);
    assertAllowed(GOLD, true, XPackLicenseState::isLogstashAllowed, true);
    assertAllowed(PLATINUM, true, XPackLicenseState::isLogstashAllowed, true);
    assertAllowed(STANDARD, true, XPackLicenseState::isLogstashAllowed, true);
}

public void testLogstashBasicLicense() throws Exception {
    assertAllowed(BASIC, true, XPackLicenseState::isLogstashAllowed, false);
}

public void testLogstashInactive() {
    assertAllowed(BASIC, false, XPackLicenseState::isLogstashAllowed, false);
    assertAllowed(TRIAL, false, XPackLicenseState::isLogstashAllowed, false);
    assertAllowed(GOLD, false, XPackLicenseState::isLogstashAllowed, false);
    assertAllowed(PLATINUM, false, XPackLicenseState::isLogstashAllowed, false);
    assertAllowed(STANDARD, false, XPackLicenseState::isLogstashAllowed, false);
}

public void testSqlDefaults() {
    XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
    assertThat(licenseState.isSqlAllowed(), is(true));
    assertThat(licenseState.isJdbcAllowed(), is(true));
}

public void testSqlBasic() {
    XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
    licenseState.update(BASIC, true);

    assertThat(licenseState.isSqlAllowed(), is(true));
    assertThat(licenseState.isJdbcAllowed(), is(false));
}

public void testSqlBasicExpired() {
    XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
    licenseState.update(BASIC, false);

    assertThat(licenseState.isSqlAllowed(), is(false));
    assertThat(licenseState.isJdbcAllowed(), is(false));
public void testSqlStandard() {
    XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
    licenseState.update(STANDARD, true);

    assertThat(licenseState.isSqlAllowed(), is(true));
    assertThat(licenseState.isJdbcAllowed(), is(false));
}

public void testSqlStandardExpired() {
    XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
    licenseState.update(STANDARD, false);

    assertThat(licenseState.isSqlAllowed(), is(false));
    assertThat(licenseState.isJdbcAllowed(), is(false));
}

public void testSqlGold() {
    XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
    licenseState.update(GOLD, true);

    assertThat(licenseState.isSqlAllowed(), is(true));
    assertThat(licenseState.isJdbcAllowed(), is(true));
}

public void testSqlGoldExpired() {
    XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
    licenseState.update(GOLD, false);

    assertThat(licenseState.isSqlAllowed(), is(false));
    assertThat(licenseState.isJdbcAllowed(), is(false));
}

public void testSqlPlatinum() {
    XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
    licenseState.update(PLATINUM, true);

    assertThat(licenseState.isSqlAllowed(), is(true));
    assertThat(licenseState.isJdbcAllowed(), is(true));
}

public void testSqlPlatinumExpired() {
    XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
    licenseState.update(PLATINUM, false);

    assertThat(licenseState.isSqlAllowed(), is(false));
    assertThat(licenseState.isJdbcAllowed(), is(false));
}
package org.elasticsearch.license;

import org.elasticsearch.common.unit.TimeValue;
import org.elasticsearch.test.ESTestCase;
import org.elasticsearch.xpack.core.scheduler.SchedulerEngine;
import static org.hamcrest.Matchers.equalTo;

public class LicenseScheduleTests extends ESTestCase {

    private License license;
    private SchedulerEngine.Schedule schedule;

    @Before
    public void setup() throws Exception {
        license = TestUtils.generateSignedLicense(TimeValue.timeValueHours(12));
        schedule = LicenseService.nextLicenseCheck(license);
    }

    public void testEnabledLicenseSchedule() throws Exception {
        int expiryDuration = (int) (license.expiryDate() - license.issueDate());
        long triggeredTime = license.issueDate() + between(0, expiryDuration);
        assertThat(schedule.nextScheduledTimeAfter(license.issueDate(), triggeredTime),
                    equalTo(license.expiryDate()));
    }

    public void testGraceLicenseSchedule() throws Exception {
        long triggeredTime = license.expiryDate() + between(1,
        ((int) LicenseService.GRACE_PERIOD_DURATION.getMillis()));
        assertThat(schedule.nextScheduledTimeAfter(license.issueDate(), triggeredTime),
                    equalToTo(license.expiryDate()));
    }

    // Other test methods...
}

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 */

// Other test methods...

import static org.hamcrest.Matchers.equalTo;

@After
public void tearDown() {
    license = null;
    schedule = null;
}

// Other test methods...

public void testSqlAckAnyToTrialOrPlatinum() {
    assertAckMessages(XPackField.SQL, randomMode(), randomTrialOrPlatinumMode(), 0);
}

public void testSqlAckTrialOrPlatinumToNotTrialOrPlatinum() {
    assertAckMessages(XPackField.SQL, randomTrialOrPlatinumMode(), randomBasicStandardOrGold(), 1);
}
public void testExpiredLicenseSchedule() throws Exception {
    long triggeredTime = license.expiryDate() + LicenseService.GRACE_PERIOD_DURATION.getMillis() +
    randomIntBetween(1, 1000);
    assertThat(schedule.nextScheduledTimeAfter(license.issueDate(), triggeredTime),
            equalTo(-1L));
}

public void testInvalidLicenseSchedule() throws Exception {
    long triggeredTime = license.issueDate() - randomIntBetween(1, 1000);
    assertThat(schedule.nextScheduledTimeAfter(triggeredTime, triggeredTime),
            equalTo(license.issueDate()));
}

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 */
package org.elasticsearch.license;

import org.elasticsearch.client.Response;
import org.elasticsearch.client.ResponseException;
import org.elasticsearch.client.RestClient;
import org.elasticsearch.common.io.Streams;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.unit.TimeValue;
import org.elasticsearch.plugins.Plugin;
import org.elasticsearch.test.ESIntegTestCase;
import org.elasticsearch.transport.Netty4Plugin;
import org.elasticsearch.xpack.core.LocalStateCompositeXPackPlugin;
import org.elasticsearch.xpack.core.XPackClientPlugin;
import java.io.InputStreamReader;
import java.nio.charset.StandardCharsets;
import java.util.Arrays;
import java.util.Collection;
import static org.elasticsearch.test.ESIntegTestCase.Scope.SUITE;
@ESIntegTestCase.ClusterScope(scope = SUITE)
public class StartBasicLicenseTests extends AbstractLicensesIntegrationTestCase {
    @Override
    protected boolean addMockHttpTransport() {
        return false; // enable http
    }
}
@Override
protected Settings nodeSettings(int nodeOrdinal) {
    return Settings.builder()
        .put(super.nodeSettings(nodeOrdinal))
        .put("node.data", true)
        .put(LicenseService.SELF_GENERATED_LICENSE_TYPE.getKey(), "basic").build();
}

@Override
protected Collection<Class<? extends Plugin>> nodePlugins() {
    return Arrays.asList(LocalStateCompositeXPackPlugin.class, Netty4Plugin.class);
}

@Override
protected Collection<Class<? extends Plugin>> transportClientPlugins() {
    return Arrays.asList(XPackClientPlugin.class, Netty4Plugin.class);
}

public void testStartBasicLicense() throws Exception {
    LicensingClient licensingClient = new LicensingClient(client());
    License license = TestUtils.generateSignedLicense("trial", License.VERSION_CURRENT, -1,
        TimeValue.timeValueHours(24));
    licensingClient.preparePutLicense(license).get();
    assertBusy(() -> {
        GetLicenseResponse getLicenseResponse = licensingClient.prepareGetLicense().get();
        assertEquals("trial", getLicenseResponse.license().type());
    });

    // Testing that you can start a basic license when you have no license
    if (randomBoolean()) {
        licensingClient.prepareDeleteLicense().get();
        assertNull(licensingClient.prepareGetLicense().get().license());
    }

    RestClient restClient = getRestClient();
    Response response = restClient.performRequest("GET", "/_xpack/license/basic_status");
    String body = Streams.copyToString(new InputStreamReader(response.getEntity().getContent(),
        StandardCharsets.UTF_8));
    assertEquals(200, response.getStatusLine().getStatusCode());
    assertEquals("{"eligible_to_start_basic":true}", body);

    Response response2 = restClient.performRequest("POST", "/_xpack/license/start_basic?acknowledge=true");
    String body2 = Streams.copyToString(new InputStreamReader(response2.getEntity().getContent(),
        StandardCharsets.UTF_8));
    assertEquals(200, response2.getStatusLine().getStatusCode());
    assertTrue(body2.contains(""acknowledged":true");
}
assertTrue(body2.contains("\"basic_was_started\":true\"));

assertBusy(() -> {
    GetLicenseResponse currentLicense = licensingClient.prepareGetLicense().get();
    assertEquals("basic", currentLicense.license().type());
});

long expirationMillis = licensingClient.prepareGetLicense().get().license().expiryDate();
assertEquals(LicenseService.BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS, expirationMillis);

Response response3 = restClient.performRequest("GET", "/_xpack/license");
String body3 = Streams.copyToString(new InputStreamReader(response3.getEntity().getContent(), StandardCharsets.UTF_8));
assertTrue(body3.contains("\"type\" : "basic\""));
assertFalse(body3.contains("expiry_date"));
assertFalse(body3.contains("expiry_date_in_millis"));

Response response4 = restClient.performRequest("GET", "/_xpack/license/basic_status");
String body4 = Streams.copyToString(new InputStreamReader(response4.getEntity().getContent(), StandardCharsets.UTF_8));
assertEquals(200, response3.getStatusLine().getStatusCode());
assertEquals("{"\"eligible_to_start_basic\":false}\"", body4);

ResponseException ex = expectThrows(ResponseException.class, () -> restClient.performRequest("POST", "/_xpack/license/start_basic");
Response response5 = ex.getResponse();
String body5 = Streams.copyToString(new InputStreamReader(response5.getEntity().getContent(), StandardCharsets.UTF_8));
assertEquals(403, response5.getStatusLine().getStatusCode());
assertTrue(body5.contains("\"basic_was_started\":false\"));
assertTrue(body5.contains("\"acknowledged\":true\"));
assertTrue(body5.contains("\"error_message\":\"Operation failed: Current license is basic.\"\"));
}

public void testUnacknowledgedStartBasicLicense() throws Exception {
    LicensingClient licensingClient = new LicensingClient(client());
    License license = TestUtils.generateSignedLicense("trial", License.VERSION_CURRENT, -1,
    TimeValue.timeValueHours(24));
    licensingClient.preparePutLicense(license).get();

    assertBusy(() -> {
        GetLicenseResponse licenseResponse = licensingClient.prepareGetLicense().get();
        assertEquals("trial", licenseResponse.license().type());
    });

    Response response2 = getRestClient().performRequest("POST", "/_xpack/license/start_basic");
}
String body2 = Streams.copyToString(new InputStreamReader(response2.getEntity().getContent(), StandardCharsets.UTF_8));
    assertEquals(200, response2.getStatusLine().getStatusCode());
    assertTrue(body2.contains("\"acknowledged\":false");
    assertTrue(body2.contains("\"basic_was_started\":false");
    assertTrue(body2.contains("\"error_message\":\"Operation failed: Needs acknowledgement.\"\")
    assertTrue(body2.contains("\"message\":\"This license update requires acknowledgement. To acknowledge the license, " +
        "please read the following messages and call /start_basic again, this time with the
        \"acknowledge=true\"\")
    }
}

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*/

package org.elasticsearch.license;

import com.carrotsearch.randomizedtesting.RandomizedTest;
import org.elasticsearch.action.ActionListener;
import org.elasticsearch.cluster.metadata.MetaData;
import org.elasticsearch.common.Strings;
import org.elasticsearch.common.joda.DateMathParser;
import org.elasticsearch.common.joda.FormatDateTimeFormatter;
import org.elasticsearch.common.joda.Joda;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.unit.TimeValue;
import org.elasticsearch.common.xcontent.ToXContent;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.common.xcontent.XContentType;
import org.elasticsearch.license.licensor.LicenseSigner;
import org.hamcrest.MatcherAssert;
import org.joda.time.format.DateTimeFormatter;
import org.junit.Assert;
import java.io.IOException;
import java.io.InputStream;
import java.nio.file.Files;
import java.nio.file.Path;
import java.nio.file.StandardCopyOption;
import java.util.ArrayList;
import java.util.List;
import java.util.UUID;
import java.util.concurrent.CountDownLatch;
import java.util.concurrent.atomic.AtomicReference;

//...
import static com.carrotsearch.randomizedtesting.RandomizedTest.randomBoolean;
import static com.carrotsearch.randomizedtesting.RandomizedTest.randomInt;
import static org.apache.lucene.util.LuceneTestCase.createTempFile;
import static org.elasticsearch.common.xcontent.XContentFactory.jsonBuilder;
import static org.elasticsearch.test.ESTestCase.randomAlphaOfLength;
import static org.elasticsearch.test.ESTestCase.randomFrom;
import static org.elasticsearch.test.ESTestCase.randomIntBetween;
import static org.hamcrest.core.IsEqual.equalTo;
import static org.junit.Assert.assertThat;

public class TestUtils {

    private static final FormatDateTimeFormatter formatDateTimeFormatter = Joda.forPattern("yyyy-MM-dd");
    private static final DateMathParser dateMathParser = new DateMathParser(formatDateTimeFormatter);
    private static final DateTimeFormatter dateTimeFormatter = formatDateTimeFormatter.printer();

    public static String dateMathString(String time, final long now) {
        return dateTimeFormatter.print(dateMathParser.parse(time, () -> now));
    }

    public static long dateMath(String time, final long now) {
        return dateMathParser.parse(time, () -> now);
    }

    public static LicenseSpec generateRandomLicenseSpec(int version) {
        boolean datesInMillis = randomBoolean();
        long now = System.currentTimeMillis();
        String uid = UUID.randomUUID().toString();
        String feature = "feature__" + randomInt();
        String issuer = "issuer__" + randomInt();
        String issuedTo = "issuedTo__" + randomInt();
        final String type;
        final String subscriptionType;
        if (version < License.VERSION_NO_FEATURE_TYPE) {
            subscriptionType = randomFrom("gold", "silver", "platinum");
            type = "subscription"://randomFrom("subscription", "internal", "development");
        } else {
            subscriptionType = null;
            type = randomFrom("basic", "dev", "gold", "silver", "platinum");
        }
        int maxNodes = RandomizedTest.randomIntBetween(5, 100);
        if (datesInMillis) {
            long issueDateInMillis = dateMath("now", now);
            long expiryDateInMillis = dateMath("now+10d/d", now);
            return new LicenseSpec(version, uid, feature, issueDateInMillis, expiryDateInMillis, type, subscriptionType,
                issuedTo, issuer,
                maxNodes);
        } else {
            // Handle cases without dates in milliseconds
        }
    }
}
String issueDate = dateMathString("now", now);
String expiryDate = dateMathString("now+10d/d", now);
return new LicenseSpec(version, uid, feature, issueDate, expiryDate, type, subscriptionType, issuedTo,
issuer, maxNodes);
}
}

public static String generateLicenseSpecString(LicenseSpec licenseSpec) throws IOException {
    XContentBuilder licenses = jsonBuilder();
    licenses.startObject();
    licenses.startArray("licenses");
    licenses.startObject()
        .field("uid", licenseSpec.uid)
        .field("type", licenseSpec.type)
        .field("subscription_type", licenseSpec.subscriptionType)
        .field("issued_to", licenseSpec.issuedTo)
        .field("issuer", licenseSpec.issuer)
        .field("feature", licenseSpec.feature)
        .field("max_nodes", licenseSpec.maxNodes);
    if (licenseSpec.issueDate != null) {
        licenses.field("issue_date", licenseSpec.issueDate);
    } else {
        licenses.field("issue_date_in_millis", licenseSpec.issueDateInMillis);
    }
    if (licenseSpec.expiryDate != null) {
        licenses.field("expiry_date", licenseSpec.expiryDate);
    } else {
        licenses.field("expiry_date_in_millis", licenseSpec.expiryDateInMillis);
    }
    licenses.field("version", licenseSpec.version);
    licenses.endObject();
    licenses.endArray();
    licenses.endObject();
    return Strings.toString(licenses);
}

public static License generateLicenses(LicenseSpec spec) {
    License.Builder builder = License.builder()
        .uid(spec.uid)
        .feature(spec.feature)
        .type(spec.type)
        .subscriptionType(spec.subscriptionType)
        .issuedTo(spec.issuedTo)
        .issuer(spec.issuer)
        .maxNodes(spec.maxNodes);
    if (spec.expiryDate != null) {

builder.expiryDate(DateUtils.endOfDay(spec.expiryDate));
} else {
    builder.expiryDate(spec.expiryDateInMillis);
}
if (spec.issueDate != null) {
    builder.issueDate(DateUtils.beginningOfDay(spec.issueDate));
} else {
    builder.issueDate(spec.issueDateInMillis);
}
return builder.build();

public static void assertLicenseSpec(LicenseSpec spec, License license) {
    MatcherAssert.assertThat(license.uid(), equalTo(spec.uid));
    MatcherAssert.assertThat(license.issuedTo(), equalTo(spec.issuedTo));
    MatcherAssert.assertThat(license.issuer(), equalTo(spec.issuer));
    MatcherAssert.assertThat(license.type(), equalTo(spec.type));
    MatcherAssert.assertThat(license.maxNodes(), equalTo(spec.maxNodes));
    if (spec.issueDate != null) {
        MatcherAssert.assertThat(license.issueDate(), equalTo(DateUtils.beginningOfDay(spec.issueDate)));
    } else {
        MatcherAssert.assertThat(license.issueDate(), equalTo(spec.issueDateInMillis));
    }
    if (spec.expiryDate != null) {
        MatcherAssert.assertThat(license.expiryDate(), equalTo(DateUtils.endOfDay(spec.expiryDate)));
    } else {
        MatcherAssert.assertThat(license.expiryDate(), equalTo(spec.expiryDateInMillis));
    }
}

public static class LicenseSpec {
    public final int version;
    public final String feature;
    public final String issueDate;
    public final long issueDateInMillis;
    public final String expiryDate;
    public final long expiryDateInMillis;
    public final String uid;
    public final String type;
    public final String subscriptionType;
    public final String issuedTo;
    public final String issuer;
    public final int maxNodes;

    public LicenseSpec(String issueDate, String expiryDate) {
        this(License.VERSION_CURRENT, UUID.randomUUID().toString(), "feature", issueDate, expiryDate,
        "trial", "none", "customer",
        "elasticsearch", 5);
    }
}
public LicenseSpec(int version, String uid, String feature, long issueDateInMillis, long expiryDateInMillis, String type,
        String subscriptionType, String issuedTo, String issuer, int maxNodes) {
    this.version = version;
    this.feature = feature;
    this.issueDateInMillis = issueDateInMillis;
    this.issueDate = null;
    this.expiryDateInMillis = expiryDateInMillis;
    this.expiryDate = null;
    this.uid = uid;
    this.type = type;
    this.subscriptionType = subscriptionType;
    this.issuedTo = issuedTo;
    this.issuer = issuer;
    this.maxNodes = maxNodes;
}

public LicenseSpec(int version, String uid, String feature, String issueDate, String expiryDate, String type,
        String subscriptionType, String issuedTo, String issuer, int maxNodes) {
    this.version = version;
    this.feature = feature;
    this.issueDate = issueDate;
    this.issueDateInMillis = -1;
    this.expiryDate = expiryDate;
    this.expiryDateInMillis = -1;
    this.uid = uid;
    this.type = type;
    this.subscriptionType = subscriptionType;
    this.issuedTo = issuedTo;
    this.issuer = issuer;
    this.maxNodes = maxNodes;
}

private static Path getTestPriKeyPath() throws Exception {
    return getResourcePath("/private.key");
}

private static Path getTestPubKeyPath() throws Exception {
    return getResourcePath("/public.key");
}

public static String dumpLicense(License license) throws Exception {
    XContentBuilder builder = XContentFactory.contentBuilder(XContentType.JSON);
    builder.startObject();
    builder.startObject("license");
    license.toInnerXContent(builder, ToXContent.EMPTY_PARAMS);
    builder.endObject();
    builder.endObject();
    return builder.toString();
}
builder.endObject();
builder.endObject();
return Strings.toString(builder);
}

public static License generateSignedLicense(TimeValue expiryDuration) throws Exception {
    return generateSignedLicense(null, -1, expiryDuration);
}

public static License generateSignedLicense(String type, TimeValue expiryDuration) throws Exception {
    return generateSignedLicense(type, -1, expiryDuration);
}

public static License generateSignedLicense(long issueDate, TimeValue expiryDuration) throws Exception {
    return generateSignedLicense(null, issueDate, expiryDuration);
}

public static License generateSignedLicense(String type, long issueDate, TimeValue expiryDuration) throws Exception {
    return generateSignedLicense(type, randomIntBetween(License.VERSION_START,
            License.VERSION_CURRENT), issueDate, expiryDuration);
}

public static License generateSignedLicenseOldSignature() {
    long issueDate = System.currentTimeMillis();
    License.Builder specBuilder = License.builder()
        .uid(UUID.randomUUID().toString())
        .version(License.VERSION_START_DATE)
        .issuedTo("customer")
        .maxNodes(5)
        .type("trial")
        .issueDate(issueDate)
        .expiryDate(issueDate + TimeValue.timeValueHours(24).getMillis());
    return SelfGeneratedLicense.create(specBuilder, License.VERSION_START_DATE);
}

/**
* This method which chooses the license type randomly if the type is null. However, it will not randomly
* choose trial or basic types as those types can only be self-generated.
*/
public static License generateSignedLicenseOldSignature() {
    long issueDate = System.currentTimeMillis();
    License.Builder specBuilder = License.builder()
        .uid(UUID.randomUUID().toString())
        .version(License.VERSION_START_DATE)
        .issuedTo("customer")
        .maxNodes(5)
        .type("trial")
        .issueDate(issueDate)
        .expiryDate(issueDate + TimeValue.timeValueHours(24).getMillis());
    return SelfGeneratedLicense.create(specBuilder, License.VERSION_START_DATE);
}

public static License generateSignedLicense(String type, int version, long issueDate, TimeValue expiryDuration) throws Exception {
    long issue = (issueDate != -1L) ? issueDate : System.currentTimeMillis() -
            TimeValue.timeValueHours(2).getMillis();
    final String licenseType;
    if (version < License.VERSION_NO_FEATURE_TYPE) {
        licenseType = randomFrom("subscription", "internal", "development");
    } else {
        licenseType = randomFrom("subscription", "internal", "development");
    }
    return generateSignedLicense(licenseType, type, version, issueDate, expiryDuration, expiryDuration);
licenseType = (type != null) ? type : randomFrom("silver", "dev", "gold", "platinum");
}
final License.Builder builder = License.builder()
    .uid(UUID.randomUUID().toString())
    .version(version)
    .expiryDate(System.currentTimeMillis() + expiryDuration.getMillis())
    .issueDate(issue)
    .type(licenseType)
    .issuedTo("customer")
    .issuer("elasticsearch")
    .maxNodes(5);
if (version == License.VERSION_START) {
    builder.subscriptionType((type != null) ? type : randomFrom("dev", "gold", "platinum", "silver"));
    builder.feature(randomAlphaOfLength(10));
}
final LicenseSigner signer = new LicenseSigner(getTestPriKeyPath(), getTestPubKeyPath());
return signer.sign(builder.build());
}

public static License generateSignedLicense(License.Builder builder) throws Exception {
    LicenseSigner signer = new LicenseSigner(getTestPriKeyPath(), getTestPubKeyPath());
    return signer.sign(builder.build());
}

public static License generateExpiredNonBasicLicense(long expiryDate) throws Exception {
    return generateExpiredNonBasicLicense(randomFrom("silver", "dev", "gold", "platinum"), expiryDate);
}

public static License generateExpiredNonBasicLicense() throws Exception {
    return generateExpiredNonBasicLicense(randomFrom("silver", "dev", "gold", "platinum"));
}

public static License generateExpiredNonBasicLicense(String type) throws Exception {
    return generateExpiredNonBasicLicense(type,
        System.currentTimeMillis() - TimeValue.timeValueHours(randomIntBetween(1, 10)).getMillis());
}

public static License generateExpiredNonBasicLicense(String type, long expiryDate) throws Exception {
    final License.Builder builder = License.builder()
        .uid(UUID.randomUUID().toString())
        .version(License.VERSION_CURRENT)
        .expiryDate(expiryDate)
        .issueDate(expiryDate - TimeValue.timeValueMinutes(10).getMillis())
        .type(type)
        .issuedTo("customer")
        .issuer("elasticsearch")
        .maxNodes(5);
    LicenseSigner signer = new LicenseSigner(getTestPriKeyPath(), getTestPubKeyPath());
return signer.sign(builder.build());
}

private static Path getResourcePath(String resource) throws Exception {
    Path resourceFile = createTempFile();
    try (InputStream resourceInput = TestUtils.class.getResourceAsStream(resource)) {
        Files.copy(resourceInput, resourceFile, StandardCopyOption.REPLACE_EXISTING);
    }
    return resourceFile;
}

public static void registerAndAckSignedLicenses(final LicenseService licenseService, License license,
                                                    final LicensesStatus expectedStatus) {
    PutLicenseRequest putLicenseRequest = new PutLicenseRequest().license(license).acknowledge(true);
    final CountDownLatch latch = new CountDownLatch(1);
    final AtomicReference<LicensesStatus> status = new AtomicReference<>();
    licenseService.registerLicense(putLicenseRequest, new ActionListener<PutLicenseResponse>() {
        @Override
        public void onResponse(PutLicenseResponse licensesUpdateResponse) {
            status.set(licensesUpdateResponse.status());
            latch.countDown();
        }
        @Override
        public void onFailure(Exception e) {
            latch.countDown();
        }
    });
    try {
        latch.await();
    } catch (InterruptedException e) {
        Assert.fail(e.getMessage());
    }
    assertThat(status.get(), equalTo(expectedStatus));
}

public static class AssertingLicenseState extends XPackLicenseState {
    public final List<License.OperationMode> modeUpdates = new ArrayList<>();
    public final List<Boolean> activeUpdates = new ArrayList<>();

    public AssertingLicenseState() {
        super(Settings.EMPTY);
    }
    @Override
    void update(License.OperationMode mode, boolean active) {
        modeUpdates.add(mode);
        activeUpdates.add(active);
    }
}

public static class AssertingLicenseState extends XPackLicenseState {
    public final List<License.OperationMode> modeUpdates = new ArrayList<>();
    public final List<Boolean> activeUpdates = new ArrayList<>();

    public AssertingLicenseState() {
        super(Settings.EMPTY);
    }
    @Override
    void update(License.OperationMode mode, boolean active) {
        modeUpdates.add(mode);
        activeUpdates.add(active);
    }
}
/**
 * A license state that makes the [@link #update(License.OperationMode, boolean)]
 * method public for use in tests.
 */
public static class UpdatableLicenseState extends XPackLicenseState {
    public UpdatableLicenseState() {
        this(Settings.EMPTY);
    }

    public UpdatableLicenseState(Settings settings) {
        super(settings);
    }

    @Override
    public void update(License.OperationMode mode, boolean active) {
        super.update(mode, active);
    }
}

public static void putLicense(MetaData.Builder builder, License license) {
    builder.putCustom(LicensesMetaData.TYPE, new LicensesMetaData(license, null));
}

/*
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 * or more contributor license agreements. Licensed under the Elastic License;
 * you may not use this file except in compliance with the Elastic License.
 */
package org.elasticsearch.license;

import org.elasticsearch.cluster.ClusterName;
import org.elasticsearch.cluster.ClusterState;
import org.elasticsearch.cluster.ClusterStateUpdateTask;
import org.elasticsearch.cluster.metadata.MetaData;
import org.elasticsearch.common.settings.Settings;
import org.mockito.ArgumentCaptor;
import org.mockito.Mockito;
import java.util.UUID;
import static org.elasticsearch.license.TestUtils.dateMath;
import static org.mockito.Matchers.any;
import static org.mockito.Mockito.verify;
import static org.mockito.Mockito.when;
public class LicenseRegistrationTests extends AbstractLicenseServiceTestCase {

    public void testSelfGeneratedTrialLicense() throws Exception {
        XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
        setInitialState(null, licenseState, Settings.EMPTY, "trial");
        when(discoveryNodes.isLocalNodeElectedMaster()).thenReturn(true);
        licenseService.start();

        ClusterState state = ClusterState.builder(new ClusterName("a")).build();
        ArgumentCaptor<ClusterStateUpdateTask> stateUpdater =
            ArgumentCaptor.forClass(ClusterStateUpdateTask.class);
        verify(clusterService, Mockito.times(1)).submitStateUpdateTask(any(), stateUpdater.capture());
        ClusterState stateWithLicense = stateUpdater.getValue().execute(state);
        LicensesMetaData licenseMetaData = stateWithLicense.metaData().custom(LicensesMetaData.TYPE);
        assertNotNull(licenseMetaData);
        assertNotNull(licenseMetaData.getLicense());
        assertFalse(licenseMetaData.isEligibleForTrial());
        assertEquals("trial", licenseMetaData.getLicense().type());
        assertEquals(clock.millis() +
                    LicenseService.NON_BASIC_SELF_GENERATED_LICENSE_DURATION.millis(),
                    licenseMetaData.getLicense().expiryDate());
    }

    public void testSelfGeneratedBasicLicense() throws Exception {
        XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
        setInitialState(null, licenseState, Settings.EMPTY, "basic");
        when(discoveryNodes.isLocalNodeElectedMaster()).thenReturn(true);
        licenseService.start();

        ClusterState state = ClusterState.builder(new ClusterName("a")).build();
        ArgumentCaptor<ClusterStateUpdateTask> stateUpdater =
            ArgumentCaptor.forClass(ClusterStateUpdateTask.class);
        verify(clusterService, Mockito.times(1)).submitStateUpdateTask(any(), stateUpdater.capture());
        ClusterState stateWithLicense = stateUpdater.getValue().execute(state);
        LicensesMetaData licenseMetaData = stateWithLicense.metaData().custom(LicensesMetaData.TYPE);
        assertNotNull(licenseMetaData);
        assertNotNull(licenseMetaData.getLicense());
        assertTrue(licenseMetaData.isEligibleForTrial());
        assertEquals("basic", licenseMetaData.getLicense().type());
        assertEquals(LicenseService.BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS,
                    licenseMetaData.getLicense().expiryDate());
    }

    public void testNonSelfGeneratedBasicLicenseIsReplaced() throws Exception {
        long now = System.currentTimeMillis();
        String uid = UUID.randomUUID().toString();
        final License.Builder builder = License.builder()
                .uid(uid)
                .type("basic")
                .expiry(now + LicenseService.BASIC_LICENSE_EXPIRATION_MILLIS)
                .build();

        XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
        setInitialState(null, licenseState, Settings.EMPTY, "basic");
        when(discoveryNodes.isLocalNodeElectedMaster()).thenReturn(true);
        licenseService.start();

        ClusterState state = ClusterState.builder(new ClusterName("a")).build();
        ArgumentCaptor<ClusterStateUpdateTask> stateUpdater =
            ArgumentCaptor.forClass(ClusterStateUpdateTask.class);
        verify(clusterService, Mockito.times(1)).submitStateUpdateTask(any(), stateUpdater.capture());
        ClusterState stateWithLicense = stateUpdater.getValue().execute(state);
        LicensesMetaData licenseMetaData = stateWithLicense.metaData().custom(LicensesMetaData.TYPE);
        assertNotNull(licenseMetaData);
        assertNotNull(licenseMetaData.getLicense());
        assertTrue(licenseMetaData.isEligibleForTrial());
        assertEquals("basic", licenseMetaData.getLicense().type());
        assertEquals(LicenseService.BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS,
                    licenseMetaData.getLicense().expiryDate());
    }

    public void testSelfGeneratedBasicLicenseIsReplaced() throws Exception {
        licenseService.start();

    }

}
License license = TestUtils.generateSignedLicense(builder);

XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
setInitialState(license, licenseState, Settings.EMPTY);
when(discoveryNodes.isLocalNodeElectedMaster()).thenReturn(true);
licenseService.start();

MetaData.Builder mdBuilder = MetaData.builder();
mdBuilder.putCustom(LicensesMetaData.TYPE, new LicensesMetaData(license, null));
ClusterState state = ClusterState.builder(new ClusterName("a")).metaData(mdBuilder.build()).build();
ArgumentCaptor<ClusterStateUpdateTask> stateUpdater =
ArgumentCaptor.forClass(ClusterStateUpdateTask.class);
verify(clusterService, Mockito.times(1)).submitStateUpdateTask(any(), stateUpdater.capture());
ClusterState stateWithLicense = stateUpdater.getValue().execute(state);
LicensesMetaData licenseMetaData = stateWithLicense.metaData().custom(LicensesMetaData.TYPE);
assertNotNull(licenseMetaData);
assertNotNull(licenseMetaData.getLicense());
assertTrue(licenseMetaData.isEligibleForTrial());
assertEquals("basic", licenseMetaData.getLicense().type());
assertEquals(LicenseService.BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS,
licenseMetaData.getLicense().expiryDate());
assertEquals(uid, licenseMetaData.getLicense().uid());
}

public void testExpiredSelfGeneratedBasicLicenseIsExtended() throws Exception {
    long now = System.currentTimeMillis();
    String uid = UUID.randomUUID().toString();
    License.Builder builder = License.builder()
        .uid(uid)
        .issuedTo("name")
        .maxNodes(1000)
        .issueDate(dateMath("now-10h", now))
        .type("basic")
        .expiryDate(dateMath("now-2h", now));
    License license = SelfGeneratedLicense.create(builder, License.VERSION_CURRENT);
    XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
    setInitialState(license, licenseState, Settings.EMPTY);
    when(discoveryNodes.isLocalNodeElectedMaster()).thenReturn(true);
    licenseService.start();
}
MetaData.Builder mdBuilder = MetaData.builder();
mdBuilder.putCustom(LicensesMetaData.TYPE, new LicensesMetaData(license, null));
ClusterState state = ClusterState.builder(new ClusterName("a")).metaData(mdBuilder.build()).build();
ArgumentCaptor<ClusterStateUpdateTask> stateUpdater = ArgumentCaptor.forClass(ClusterStateUpdateTask.class);
verify(clusterService, Mockito.times(1)).submitStateUpdateTask(any(), stateUpdater.capture());
ClusterState stateWithLicense = stateUpdater.getValue().execute(state);
LicensesMetaData licenseMetaData = stateWithLicense.metaData().custom(LicensesMetaData.TYPE);
assertNotNull(licenseMetaData);
assertNotNull(licenseMetaData.getLicense());
assertTrue(licenseMetaData.isEligibleForTrial());
assertEquals("basic", licenseMetaData.getLicense().type());
assertEquals(LicenseService.BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS, licenseMetaData.getLicense().expiryDate());
assertEquals(uid, licenseMetaData.getLicense().uid());

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 * or more contributor license agreements. Licensed under the Elastic License;
 * you may not use this file except in compliance with the Elastic License.
 */
package org.elasticsearch.license;
import org.elasticsearch.Version;
import org.elasticsearch.cluster.ClusterModule;
import org.elasticsearch.cluster.metadata.MetaData;
import org.elasticsearch.cluster.metadata.RepositoriesMetaData;
import org.elasticsearch.cluster.metadata.RepositoryMetaData;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.unit.TimeValue;
import org.elasticsearch.common.xcontent.NamedXContentRegistry;
import org.elasticsearch.common.xcontent.ToXContent;
import org.elasticsearch.common.xcontent.ToXContent.Params;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.common.xcontent.XContentFactory;
import org.elasticsearch.common.xcontent.XContentParser;
import org.elasticsearch.test.ESTestCase;
import java.util.Collections;
import java.util.UUID;
import java.util.stream.Collectors;
import java.util.stream.Stream;
import static org.hamcrest.Matchers.equalTo;
import static org.hamcrest.Matchers.notNullValue;
import static org.hamcrest.Matchers.nullValue;

import static org.hamcrest.Matchers.nullValue;
public class LicensesMetaDataSerializationTests extends ETestCase {

public void testXContentSerializationOneSignedLicense() throws Exception {
    License license = TestUtils.generateSignedLicense(TimeValue.timeValueHours(2));
    LicensesMetaData licensesMetaData = new LicensesMetaData(license, null);
    XContentBuilder builder = XContentFactory.jsonBuilder();
    builder.startObject();
    builder.startObject("licenses");
    licensesMetaData.toXContent(builder, ToXContent.EMPTY_PARAMS);
    builder.endObject();
    builder.endObject();
    LicensesMetaData licensesMetaDataFromXContent =
    getLicensesMetaDataFromXContent(createParser(builder));
    assertThat(licensesMetaDataFromXContent.getLicense(), equalTo(license));
    assertNull(licensesMetaDataFromXContent.getMostRecentTrialVersion());
}

public void testXContentSerializationOneSignedLicenseWithUsedTrial() throws Exception {
    License license = TestUtils.generateSignedLicense(TimeValue.timeValueHours(2));
    LicensesMetaData licensesMetaData = new LicensesMetaData(license, Version.CURRENT);
    XContentBuilder builder = XContentFactory.jsonBuilder();
    builder.startObject();
    builder.startObject("licenses");
    licensesMetaData.toXContent(builder, ToXContent.EMPTY_PARAMS);
    builder.endObject();
    builder.endObject();
    LicensesMetaData licensesMetaDataFromXContent =
    getLicensesMetaDataFromXContent(createParser(builder));
    assertThat(licensesMetaDataFromXContent.getLicense(), equalTo(license));
    assertEquals(licensesMetaDataFromXContent.getMostRecentTrialVersion(), Version.CURRENT);
}

public void testLicenseMetadataParsingDoesNotSwallowOtherMetaData() throws Exception {
    new Licensing(Settings.EMPTY); // makes sure LicensePlugin is registered in Custom MetaData
    License license = TestUtils.generateSignedLicense(TimeValue.timeValueHours(2));
    LicensesMetaData licensesMetaData = new LicensesMetaData(license, Version.CURRENT);
    XContentBuilder builder = XContentFactory.jsonBuilder();
    builder.startObject();
    builder.startObject("licenses");
    licensesMetaData.toXContent(builder, ToXContent.EMPTY_PARAMS);
    builder.endObject();
    builder.endObject();
    LicensesMetaData licensesMetaDataFromXContent =
    getLicensesMetaDataFromXContent(createParser(builder));
    assertThat(licensesMetaDataFromXContent.getLicense(), equalTo(license));
    assertNotEquals(licensesMetaDataFromXContent.getMostRecentTrialVersion(), Version.CURRENT); //
}

public void testLicenseMetadataParsingDoesNotSwallowOtherMetaData() throws Exception {
    new Licensing(Settings.EMPTY); // makes sure LicensePlugin is registered in Custom MetaData
    License license = TestUtils.generateSignedLicense(TimeValue.timeValueHours(2));
    LicensesMetaData licensesMetaData = new LicensesMetaData(license, Version.CURRENT);
    XContentBuilder builder = XContentFactory.jsonBuilder();
    builder.startObject();
    builder.startObject("licenses");
    licensesMetaData.toXContent(builder, ToXContent.EMPTY_PARAMS);
    builder.endObject();
    builder.endObject();
    LicensesMetaData licensesMetaDataFromXContent =
    getLicensesMetaDataFromXContent(createParser(builder));
    assertThat(licensesMetaDataFromXContent.getLicense(), equalTo(license));
    assertNotEquals(licensesMetaDataFromXContent.getMostRecentTrialVersion(), Version.CURRENT); //
}
// serialize metadata
XContentBuilder builder = XContentFactory.jsonBuilder();
Params params = new
ToXContent.MapParams(Collections.singletonMap(MetaData.CONTEXT_MODE_PARAM,
MetaData.CONTEXT_MODE_GATEWAY));
builder.startObject();
builder = metaDataBuilder.build().toXContent(builder, params);
builder.endObject();
// deserialize metadata again
MetaData metaData = MetaData.Builder.fromXContent(createParser(builder));
// check that custom metadata still present
assertThat(metaData.custom(licensesMetaData.getWriteableName()), notNullValue());
assertThat(metaData.custom(repositoriesMetaData.getWriteableName()), notNullValue());
}

public void testXContentSerializationOneTrial() throws Exception {
    long issueDate = System.currentTimeMillis();
    License.Builder specBuilder = License.builder()
        .uid(UUID.randomUUID().toString())
        .issuedTo("customer")
        .maxNodes(5)
        .issueDate(issueDate)
        .type(randomBoolean() ? "trial" : "basic")
        .expiryDate(issueDate + TimeValue.timeValueHours(2).getMillis());
    final License trialLicense = SelfGeneratedLicense.create(specBuilder, License.VERSION_CURRENT);
    LicensesMetaData licensesMetaData = new LicensesMetaData(trialLicense, Version.CURRENT);
    XContentBuilder builder = XContentFactory.jsonBuilder();
    builder.startObject();
    builder.startObject("licenses");
    licensesMetaData.toXContent(builder, ToXContent.EMPTY_PARAMS);
    builder.endObject();
    builder.endObject();
    LicensesMetaData licensesMetaDataFromXContent =
    getLicensesMetaDataFromXContent(createParser(builder));
    assertThat(licensesMetaDataFromXContent.getLicense(), equalTo(trialLicense));
    assertEquals(licensesMetaDataFromXContent.getMostRecentTrialVersion(), Version.CURRENT);
}

public void testLicenseTombstoneFromXContext() throws Exception {
    final XContentBuilder builder = XContentFactory.jsonBuilder();
    builder.startObject();
    builder.startObject("licenses");
    builder.nullField("license");
    builder.endObject();
    builder.endObject();
    LicensesMetaData metaDataFromXContent =
    getLicensesMetaDataFromXContent(createParser(builder));
    assertThat(metaDataFromXContent.getLicense(), equalTo(LicensesMetaData.LICENSE_TOMBSTONE));
    assertEquals(metaDataFromXContent.getMostRecentTrialVersion(), Version.CURRENT);
}
public void testLicenseTombstoneWithUsedTrialFromXContext() throws Exception {
    final XContentBuilder builder = XContentFactory.jsonBuilder();
    builder.startObject();
    builder.startObject("licenses");
    builder.nullField("license");
    builder.field("trial_license", Version.CURRENT.toString());
    builder.endObject();
    builder.endObject();
    LicensesMetaData metaDataFromXContent = getLicensesMetaDataFromXContent(createParser(builder));
    assertThat(metaDataFromXContent.getLicense(), equalTo(LicensesMetaData.LICENSE_TOMBSTONE));
    assertEquals(metaDataFromXContent.getMostRecentTrialVersion(), Version.CURRENT);
}

private static LicensesMetaData getLicensesMetaDataFromXContent(XContentParser parser) throws Exception {
    parser.nextToken(); // consume null
    parser.nextToken(); // consume "licenses"
    LicensesMetaData licensesMetaDataFromXContent = LicensesMetaData.fromXContent(parser);
    parser.nextToken(); // consume endObject
    assertThat(parser.nextToken(), nullValue());
    return licensesMetaDataFromXContent;
}

@Override
protected NamedXContentRegistry xContentRegistry() {
    return new NamedXContentRegistry(Stream.concat(
        new Licensing(Settings.EMPTY).getNamedXContent().stream(),
        ClusterModule.getNamedXWriteables().stream()
    ).collect(Collectors.toList()));
}

/*@Override
protected NamedXContentRegistry xContentRegistry() {*/
    return new NamedXContentRegistry(Stream.concat(
        new Licensing(Settings.EMPTY).getNamedXContent().stream(),
        ClusterModule.getNamedXWriteables().stream()
    ).collect(Collectors.toList()));

package org.elasticsearch.license;

import org.elasticsearch.client.Response;
import org.elasticsearch.client.ResponseException;
import org.elasticsearch.client.RestClient;
import org.elasticsearch.common.io.Streams;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.plugins.Plugin;
import org.elasticsearch.test.ESIntegTestCase;
import org.elasticsearch.transport.Netty4Plugin;
import org.elasticsearch.xpack.core.LocalStateCompositeXPackPlugin;
import org.elasticsearch.xpack.core.XPackClientPlugin;

import org.elasticsearch.client.Response;
import org.elasticsearch.client.ResponseException;
import org.elasticsearch.client.RestClient;
import org.elasticsearch.common.io.Streams;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.plugins.Plugin;
import org.elasticsearch.test.ESIntegTestCase;
import org.elasticsearch.transport.Netty4Plugin;
import org.elasticsearch.xpack.core.LocalStateCompositeXPackPlugin;
import org.elasticsearch.xpack.core.XPackClientPlugin;
import java.io.InputStreamReader;
import java.nio.charset.StandardCharsets;
import java.util.Arrays;
import java.util.Collection;
import static org.elasticsearch.test.ESIntegTestCase.Scope.SUITE;

@ESIntegTestcase.ClusterScope(scope = SUITE)
public class StartTrialLicenseTests extends AbstractLicensesIntegrationTestCase {

    @Override
    protected boolean addMockHttpTransport() {
        return false; // enable http
    }

    @Override
    protected Settings nodeSettings(int nodeOrdinal) {
        return Settings.builder()
                .put(super.nodeSettings(nodeOrdinal))
                .put("node.data", true)
                .put(LicenseService.SELF_GENERATED_LICENSE_TYPE.getKey(), "basic").build();
    }

    @Override
    protected Collection<Class<? extends Plugin>> nodePlugins() {
        return Arrays.asList(LocalStateCompositeXPackPlugin.class, Netty4Plugin.class);
    }

    @Override
    protected Collection<Class<? extends Plugin>> transportClientPlugins() {
        return Arrays.asList(XPackClientPlugin.class, Netty4Plugin.class);
    }

    public void testStartTrial() throws Exception {
        LicensingClient licensingClient = new LicensingClient(client());
        ensureStartingWithBasic();

        RestClient restClient = getRestClient();
        Response response = restClient.performRequest("GET", "/_xpack/license/trial_status");
        String body = Streams.copyToString(new InputStreamReader(response.getEntity().getContent(),
                StandardCharsets.UTF_8));
        assertEquals(200, response.getStatusLine().getStatusCode());
        assertEquals("{"eligible_to_start_trial":true}", body);

        // Test that starting will fail without acknowledgement
        Response response2 = restClient.performRequest("POST", "/_xpack/license/start_trial");
        String body2 = Streams.copyToString(new InputStreamReader(response2.getEntity().getContent(),
                StandardCharsets.UTF_8));
        assertEquals("{"eligible_to_start_trial":false}", body2);
    }
}
StandardCharsets.UTF_8));
assertEquals(200, response2.getStatusLine().getStatusCode());
assertFalse(body2.contains("\"trial_was_started\":false"));
assertFalse(body2.contains("\"error_message\":\"Operation failed: Needs acknowledgement.\"\"));
assertFalse(body2.contains("\"acknowledged\":false"));

assertBusy(() -> {
    GetLicenseResponse getLicenseResponse = licensingClient.prepareGetLicense().get();
    assertEquals("basic", getLicenseResponse.license().type());
});

String type = randomFrom(LicenseService.VALID_TRIAL_TYPES);
Response response3 = restClient.performRequest("POST", "/_xpack/license/start_trial?acknowledge=true&type=" + type);
String body3 = Streams.copyToString(new InputStreamReader(response3.getEntity().getContent(), StandardCharsets.UTF_8));
assertEquals(200, response3.getStatusLine().getStatusCode());
assertFalse(body3.contains("\"trial_was_started\":true"));
assertFalse(body3.contains("\"type\":\"" + type + "\"\"));
assertFalse(body3.contains("\"acknowledged\":true"));

assertBusy(() -> {
    GetLicenseResponse postTrialLicenseResponse = licensingClient.prepareGetLicense().get();
    assertEquals(type, postTrialLicenseResponse.license().type());
});

Response response4 = restClient.performRequest("GET", "/_xpack/license/trial_status");
String body4 = Streams.copyToString(new InputStreamReader(response4.getEntity().getContent(), StandardCharsets.UTF_8));
assertEquals(200, response4.getStatusLine().getStatusCode());
assertEquals("{"eligible_to_start_trial":false}", body4);
String secondAttemptType = randomFrom(LicenseService.VALID_TRIAL_TYPES);
ResponseException ex = expectThrows(ResponseException.class, () -> restClient.performRequest("POST", "/_xpack/license/start_trial?acknowledge=true&type=" + secondAttemptType));
Response response5 = ex.getResponse();
String body5 = Streams.copyToString(new InputStreamReader(response5.getEntity().getContent(), StandardCharsets.UTF_8));
assertEquals(403, response5.getStatusLine().getStatusCode());
assertFalse(body5.contains("\"trial_was_started\":false"));
assertFalse(body5.contains("\"error_message\":\"Operation failed: Trial was already activated.\"\")));

public void testInvalidType() throws Exception {
    ensureStartingWithBasic();
    assertEquals(200, response2.getStatusLine().getStatusCode());
    assertFalse(body2.contains("\"trial_was_started\":false"));
    assertFalse(body2.contains("\"error_message\":\"Operation failed: Needs acknowledgement.\"\"));
    assertFalse(body2.contains("\"acknowledged\":false"));
    
    assertBusy(() -> {
        GetLicenseResponse getLicenseResponse = licensingClient.prepareGetLicense().get();
        assertEquals("basic", getLicenseResponse.license().type());
    });
    String type = randomFrom(LicenseService.VALID_TRIAL_TYPES);
    Response response3 = restClient.performRequest("POST", "/_xpack/license/start_trial?acknowledge=true&type=" + type);
    String body3 = Streams.copyToString(new InputStreamReader(response3.getEntity().getContent(), StandardCharsets.UTF_8));
    assertEquals(200, response3.getStatusLine().getStatusCode());
    assertFalse(body3.contains("\"trial_was_started\":true"));
    assertFalse(body3.contains("\"type\":\"" + type + "\"\"));
    assertFalse(body3.contains("\"acknowledged\":true"));
    
    assertBusy(() -> {
        GetLicenseResponse postTrialLicenseResponse = licensingClient.prepareGetLicense().get();
        assertEquals(type, postTrialLicenseResponse.license().type());
    });
    
    Response response4 = restClient.performRequest("GET", "/_xpack/license/trial_status");
    String body4 = Streams.copyToString(new InputStreamReader(response4.getEntity().getContent(), StandardCharsets.UTF_8));
    assertEquals(200, response4.getStatusLine().getStatusCode());
    assertEquals("{"eligible_to_start_trial":false}", body4);
    String secondAttemptType = randomFrom(LicenseService.VALID_TRIAL_TYPES);
    ResponseException ex = expectThrows(ResponseException.class, () -> restClient.performRequest("POST", "/_xpack/license/start_trial?acknowledge=true&type=" + secondAttemptType));
    Response response5 = ex.getResponse();
    String body5 = Streams.copyToString(new InputStreamReader(response5.getEntity().getContent(), StandardCharsets.UTF_8));
    assertEquals(403, response5.getStatusLine().getStatusCode());
    assertFalse(body5.contains("\"trial_was_started\":false"));
    assertFalse(body5.contains("\"error_message\":\"Operation failed: Trial was already activated.\"\")));
}
ResponseException ex = expectThrows(ResponseException.class, () ->
    getRestClient().performRequest("POST", "/_xpack/license/start_trial?type=basic");
Response response = ex.getResponse();
String body = Streams.copyToString(new InputStreamReader(response.getEntity().getContent(),
    StandardCharsets.UTF_8));
assertEquals(400, response.getStatusLine().getStatusCode());
assertTrue(body.contains("type":"illegal_argument_exception"));
assertTrue(body.contains("reason":"Cannot start trial of type [basic]. Valid trial types are ["]"));
}

private void ensureStartingWithBasic() throws Exception {
    LicensingClient licensingClient = new LicensingClient(client());
    GetLicenseResponse getLicenseResponse = licensingClient.prepareGetLicense().get();
    if ("basic".equals(getLicenseResponse.license().type()) == false) {
        licensingClient.preparePostStartBasic().setAcknowledge(true).get();
    }

    assertBusy(() -> {
        GetLicenseResponse postTrialLicenseResponse = licensingClient.prepareGetLicense().get();
        assertEquals("basic", postTrialLicenseResponse.license().type());
    });
}

package org.elasticsearch.license;
import org.elasticsearch.ElasticsearchSecurityException;
import org.elasticsearch.test.ESTestCase;
import java.util.Arrays;
import static org.hamcrest.Matchers.contains;
import static org.hamcrest.Matchers.equalTo;
import static org.hamcrest.Matchers.hasSize;

public class LicenseUtilsTests extends ESTestCase {

    public void testNewExpirationException() {
        for (String feature : Arrays.asList("feature", randomAlphaOfLength(5), null, "")) {
            ElasticsearchSecurityException exception = LicenseUtils.newComplianceException(feature);
            assertNotNull(exception);
            assertThat(exception.getMetadataKeys(), contains(LicenseUtils.EXPIRED_FEATURE_METADATA));
        }
    }

}
assertThat(exception.getMetadata(LicenseUtils.EXPIRED_FEATURE_METADATA), hasSize(1));
assertThat(exception.getMetadata(LicenseUtils.EXPIRED_FEATURE_METADATA).iterator().next(), equalTo(feature));
}
}

public void testIsLicenseExpiredException() {

ElasticsearchSecurityException exception = LicenseUtils.newComplianceException("feature");
assertTrue(LicenseUtils.isLicenseExpiredException(exception));

exception = new ElasticsearchSecurityException("msg");
assertFalse(LicenseUtils.isLicenseExpiredException(exception));
}
}

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*/
package org.elasticsearch.license;

import org.elasticsearch.common.bytes.BytesReference;
import org.elasticsearch.common.unit.TimeValue;
import org.elasticsearch.common.xcontent.ToXContent;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.common.xcontent.XContentType;
import org.elasticsearch.test.ESTestCase;
import java.io.IOException;
import java.nio.ByteBuffer;
import java.util.Base64;
import java.util.Collections;
import java.util.UUID;
import static org.elasticsearch.license.CryptUtils.encryptV3Format;
import static org.hamcrest.Matchers.equalTo;

public class SelfGeneratedLicenseTests extends ESTestCase {

public void testBasic() throws Exception {

long issueDate = System.currentTimeMillis();
License.Builder specBuilder = License.builder()
  .uid(UUID.randomUUID().toString())
  .issuedTo("customer")
  .maxNodes(5)
  .type(randomBoolean() ? "trial" : "basic")


License trialLicense = SelfGeneratedLicense.create(specBuilder, License.VERSION_CURRENT);
assertThat(SelfGeneratedLicense.verify(trialLicense), equalTo(true));
}

public void testTampered() throws Exception {
long issueDate = System.currentTimeMillis();
License.Builder specBuilder = License.builder()
  .uid(UUID.randomUUID().toString())
  .issuedTo("customer")
  .type(randomBoolean() ? "trial" : "basic")
  .maxNodes(5)
  .issueDate(issueDate)
  .expiryDate(issueDate + TimeValue.timeValueHours(2).getMillis());
License trialLicense = SelfGeneratedLicense.create(specBuilder, License.VERSION_CURRENT);
final String originalSignature = trialLicense.signature();
License tamperedLicense = License.builder().fromLicenseSpec(trialLicense, originalSignature)
  .expiryDate(System.currentTimeMillis() + TimeValue.timeValueHours(5).getMillis())
  .build();
assertThat(SelfGeneratedLicense.verify(trialLicense), equalTo(true));
assertThat(SelfGeneratedLicense.verify(tamperedLicense), equalTo(false));
}

public void testFrom1x() throws Exception {
long issueDate = System.currentTimeMillis();
License.Builder specBuilder = License.builder()
  .uid(UUID.randomUUID().toString())
  .issuedTo("customer")
  .type("subscription")
  .subscriptionType("trial")
  .issuer("elasticsearch")
  .feature("")
  .version(License.VERSION_START)
  .maxNodes(5)
  .issueDate(issueDate)
  .expiryDate(issueDate + TimeValue.timeValueHours(2).getMillis());
License pre20TrialLicense = specBuilder.build();
License license =
  SelfGeneratedLicense.create(License.builder().fromPre20LicenseSpec(pre20TrialLicense).type("trial"),
  License.VERSION_CURRENT);
assertThat(SelfGeneratedLicense.verify(license), equalTo(true));
}

public void testTrialLicenseVerifyWithOlderVersion() throws Exception {
long issueDate = System.currentTimeMillis();
License.Builder specBuilder = License.builder()
  .issuedTo("customer")
  .type("subscription")
  .subscriptionType("trial")
  .issuer("elasticsearch")
  .feature("")
  .version(License.VERSION_START)
  .maxNodes(5)
  .issueDate(issueDate)
  .expiryDate(issueDate + TimeValue.timeValueHours(2).getMillis());
License trialLicense = SelfGeneratedLicense.create(specBuilder, License.VERSION_CURRENT);
assertThat(SelfGeneratedLicense.verify(trialLicense), equalTo(true));
}
License trialLicenseV1 = createTrialLicense(specBuilder);
assertThat(SelfGeneratedLicense.verify(trialLicenseV1), equalTo(true));
}

private static License createTrialLicense(License.Builder specBuilder) {
    License spec = specBuilder
        .type(randomBoolean() ? "trial" : "basic")
        .issuer("elasticsearch")
        .uid(UUID.randomUUID().toString())
        .build();
    final String signature;
    try {
        XContentBuilder contentBuilder = XContentFactory.contentBuilder(XContentType.JSON);
        spec.toXContent(contentBuilder, new ToXContent.MapParams(Collections.singletonMap(License.LICENSE_SPEC_VIEW_MODE, "true")));
        byte[] encrypt = encryptV3Format(BytesReference.toBytes(BytesReference.bytes(contentBuilder)));
        byte[] bytes = new byte[4 + 4 + encrypt.length];
        ByteBuffer byteBuffer = ByteBuffer.wrap(bytes);
        byteBuffer.putInt(-spec.version())
            .putInt(encrypt.length)
            .put(encrypt);
        signature = Base64.getEncoder().encodeToString(bytes);
    } catch (IOException e) {
        throw new IllegalStateException(e);
    }
    return License.builder().fromLicenseSpec(spec, signature).build();
}

package org.elasticsearch.license;

import org.elasticsearch.test.ESTestCase;
import java.util.Locale;
import static org.elasticsearch.license.License.OperationMode;
import static org.hamcrest.Matchers.equalTo;

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 */
import org.elasticsearch.test.ESTestCase;
import java.util.Locale;
import static org.elasticsearch.license.License.OperationMode;
import static org.elasticsearch.license.License.OperationMode;
/**
 * Tests {@link License.OperationMode} for correctness.
 * <p>
 * If you change the behavior of these tests, then it means that licensing changes across the products!
 */

public class LicenseOperationModeTests extends ESTestCase {
    public void testResolveTrial() {
        // assert 1.x BWC
        assertResolve(OperationMode.TRIAL, "nONE", "DEv", "dEvlopment");
        // assert expected (2.x+) variant
        assertResolve(OperationMode.TRIAL, "tRiAl", "trial");
    }

    public void testResolveBasic() {
        // assert expected (2.x+) variant (note: no 1.x variant of BASIC)
        assertResolve(OperationMode.BASIC, "bAsIc", "basic");
    }

    public void testResolveStandard() {
        // assert expected (2.x+) variant (note: no 1.x variant of STANDARD)
        assertResolve(OperationMode.STANDARD, "StAnDARd", "standard");
    }

    public void testResolveGold() {
        // assert expected (2.x+) variant (note: no different 1.x variant of GOLD)
        assertResolve(OperationMode.GOLD, "SiLvEr", "gOlD", "silver", "gold");
    }

    public void testResolvePlatinum() {
        // assert 1.x BWC
        assertResolve(OperationMode.PLATINUM, "iNtErNaL");
        // assert expected (2.x+) variant
        assertResolve(OperationMode.PLATINUM, "PlAtINum", "platinum");
    }

    public void testResolveUnknown() {
        // 'enterprise' is a type that exists in cloud but should be rejected under normal operation
        // See https://github.com/elastic/x-plugins/issues/3371
        String[] types = { "unknown", "fake", "enterprise" };

        for (String type : types) {
            try {
                OperationMode.resolve(type);
                fail(String.format(Locale.ROOT, "[%s] should not be recognized as an operation mode", type));
            }
            catch (IllegalArgumentException e) {
                assertThat(e.getMessage(), equalTo("unknown type [" + type + "]"));
            }
        }
    }
}
private static void assertResolve(OperationMode expected, String... types) {
    for (String type : types) {
        assertThat(OperationMode.resolve(type), equalTo(expected));
    }
}

package org.elasticsearch.license;

import org.elasticsearch.common.unit.TimeValue;
import org.elasticsearch.test.ESTestCase;
import static org.elasticsearch.common.unit.TimeValue.timeValueMillis;
import static org.hamcrest.Matchers.equalTo;
import static org.hamcrest.Matchers.nullValue;
public class ExpirationCallbackTests extends ESTestCase {

    public void testPostExpirationDelay() throws Exception {
        TimeValue expiryDuration = TimeValue.timeValueSeconds(randomIntBetween(5, 10));
        TimeValue min = TimeValue.timeValueSeconds(1);
        TimeValue max = TimeValue.timeValueSeconds(4);
        TimeValue frequency = TimeValue.timeValueSeconds(1);
        NoopPostExpirationCallback post = new NoopPostExpirationCallback(min, max, frequency);
        long now = System.currentTimeMillis();
        long expiryDate = now + expiryDuration.getMillis();
        assertThat(post.delay(expiryDate, now),
                    equalTo(TimeValue.timeValueMillis(expiryDuration.getMillis() + min.getMillis()))); // before license expiry
        assertThat(post.delay(expiryDate, expiryDate), equalTo(min)); // on license expiry
        int latestValidTriggerDelay = (int) (expiryDuration.getMillis() + max.getMillis());
        int earliestValidTriggerDelay = (int) (expiryDuration.getMillis() + min.getMillis());
        assertExpirationCallbackDelay(post, expiryDuration.millis(), latestValidTriggerDelay,
                                        earliestValidTriggerDelay);
    }

    public void testPreExpirationDelay() throws Exception {
        TimeValue expiryDuration = TimeValue.timeValueSeconds(randomIntBetween(5, 10));
        TimeValue min = TimeValue.timeValueSeconds(1);
        TimeValue max = TimeValue.timeValueSeconds(4);
TimeValue frequency = TimeValue.timeValueSeconds(1);
NoopPreExpirationCallback pre = new NoopPreExpirationCallback(min, max, frequency);
long now = System.currentTimeMillis();
long expiryDate = now + expiryDuration.getMillis();
assertThat(pre.delay(expiryDate, expiryDate), nullValue()); // on license expiry
int latestValidTriggerDelay = (int) (expiryDuration.getMillis() - min.getMillis());
int earliestValidTriggerDelay = (int) (expiryDuration.getMillis() - max.getMillis());
assertExpirationCallbackDelay(pre, expiryDuration.millis(), latestValidTriggerDelay,
earliestValidTriggerDelay);
}

public void testPostExpirationWithNullMax() throws Exception {
    int postExpirySeconds = randomIntBetween(5, 10);
    TimeValue postExpiryDuration = TimeValue.timeValueSeconds(postExpirySeconds);
    TimeValue min = TimeValue.timeValueSeconds(postExpirySeconds - randomIntBetween(1, 3));

    final ExpirationCallback.Post post = new NoopPostExpirationCallback(min, null, timeValueMillis(10));
    long now = System.currentTimeMillis();
    assertThat(post.delay(now - postExpiryDuration.millis(), now), equalTo(TimeValue.timeValueMillis(0)));
}

public void testPreExpirationWithNullMin() throws Exception {
    int expirySeconds = randomIntBetween(5, 10);
    TimeValue expiryDuration = TimeValue.timeValueSeconds(expirySeconds);
    TimeValue max = TimeValue.timeValueSeconds(expirySeconds + randomIntBetween(1, 10));

    final ExpirationCallback.Pre pre = new NoopPreExpirationCallback(null, max, timeValueMillis(10));
    long now = System.currentTimeMillis();
    assertThat(pre.delay(expiryDuration.millis() + now, now), equalTo(TimeValue.timeValueMillis(0)));
}

public void testPreExpirationScheduleTime() throws Exception {
    TimeValue expiryDuration = TimeValue.timeValueSeconds(randomIntBetween(5, 10));
    TimeValue min = TimeValue.timeValueSeconds(1);
    TimeValue max = TimeValue.timeValueSeconds(4);
    TimeValue frequency = TimeValue.timeValueSeconds(1);
    NoopPreExpirationCallback pre = new NoopPreExpirationCallback(min, max, frequency);
    int latestValidTriggerDelay = (int) (expiryDuration.getMillis() - min.getMillis());
    int earliestValidTriggerDelay = (int) (expiryDuration.getMillis() - max.getMillis());
    assertExpirationCallbackScheduleTime(pre, expiryDuration.millis(), latestValidTriggerDelay,
earliestValidTriggerDelay);
}

public void testPostExpirationScheduleTime() throws Exception {
    TimeValue expiryDuration = TimeValue.timeValueSeconds(randomIntBetween(5, 10));
    TimeValue min = TimeValue.timeValueSeconds(1);
    TimeValue max = TimeValue.timeValueSeconds(4);
    TimeValue frequency = TimeValue.timeValueSeconds(1);
NoopPostExpirationCallback pre = new NoopPostExpirationCallback(min, max, frequency);
int latestValidTriggerDelay = (int) (expiryDuration.getMillis() + max.getMillis());
int earliestValidTriggerDelay = (int) (expiryDuration.getMillis() + min.getMillis());
assertExpirationCallbackScheduleTime(pre, expiryDuration.millis(), latestValidTriggerDelay, earliestValidTriggerDelay);
}

private void assertExpirationCallbackDelay(ExpirationCallback expirationCallback, long expiryDuration,
int latestValidTriggerDelay, int earliestValidTriggerDelay) {
long now = System.currentTimeMillis();
long expiryDate = now + expiryDuration;
// bounds
assertThat(expirationCallback.delay(expiryDate, now + earliestValidTriggerDelay),
equalTo(TimeValue.timeValueMillis(0)));
assertThat(expirationCallback.delay(expiryDate, now + latestValidTriggerDelay),
equalTo(TimeValue.timeValueMillis(0)));
// in match
assertThat(expirationCallback.delay(expiryDate, now + randomIntBetween(earliestValidTriggerDelay, latestValidTriggerDelay)),
equalTo(TimeValue.timeValueMillis(0)));
// out of bounds
int deltaBeforeEarliestMatch = between(1, earliestValidTriggerDelay);
assertThat(expirationCallback.delay(expiryDate, now + deltaBeforeEarliestMatch),
equalTo(TimeValue.timeValueMillis(earliestValidTriggerDelay - deltaBeforeEarliestMatch)));
int deltaAfterLatestMatch = between(latestValidTriggerDelay + 1, Integer.MAX_VALUE); // after expiry and after max
assertThat(expirationCallback.delay(expiryDate, expiryDate + deltaAfterLatestMatch), nullValue());
}

public void assertExpirationCallbackScheduleTime(ExpirationCallback expirationCallback, long expiryDuration,
int latestValidTriggerDelay, int earliestValidTriggerDelay) {
long now = System.currentTimeMillis();
long expiryDate = now + expiryDuration;
int validTriggerInterval = between(earliestValidTriggerDelay, latestValidTriggerDelay);
assertThat(expirationCallback.nextScheduledTimeForExpiry(expiryDate, now + validTriggerInterval, now + validTriggerInterval),
equalTo(now + validTriggerInterval));
assertThat(expirationCallback.nextScheduledTimeForExpiry(expiryDate, now, now + validTriggerInterval),
equalTo(now + validTriggerInterval + expirationCallback.getFrequency()));

int deltaBeforeEarliestMatch = between(1, earliestValidTriggerDelay - 1);
assertThat(expirationCallback.nextScheduledTimeForExpiry(expiryDate, now, now + deltaBeforeEarliestMatch),
equalTo(now + deltaBeforeEarliestMatch +
expirationCallback.delay(expiryDate, now + deltaBeforeEarliestMatch).getMillis()));
assertThat(expirationCallback.nextScheduledTimeForExpiry(expiryDate, now + deltaBeforeEarliestMatch, now + deltaBeforeEarliestMatch),
equalTo(now + deltaBeforeEarliestMatch +

expirationCallback.delay(expiryDate, now + deltaBeforeEarliestMatch).getMillis()));

    int deltaAfterLatestMatch = between(latestValidTriggerDelay + 1, Integer.MAX_VALUE); // after expiry and after max
    assertThat(expirationCallback.nextScheduledTimeForExpiry(expiryDate, now, now + deltaAfterLatestMatch),
        equalTo(-1L));
    assertThat(expirationCallback.nextScheduledTimeForExpiry(expiryDate,
        now + deltaAfterLatestMatch, now + deltaAfterLatestMatch),
        equalTo(-1L));
}

private static class NoopPostExpirationCallback extends ExpirationCallback.Post {

    NoopPostExpirationCallback(TimeValue min, TimeValue max, TimeValue frequency) {
        super(min, max, frequency);
    }

    @Override
    public void on(License license) {}
}

private static class NoopPreExpirationCallback extends ExpirationCallback.Pre {

    NoopPreExpirationCallback(TimeValue min, TimeValue max, TimeValue frequency) {
        super(min, max, frequency);
    }

    @Override
    public void on(License license) {}
}

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*/
package org.elasticsearch.license;

import org.elasticsearch.Version;
import org.elasticsearch.action.support.PlainActionFuture;
import org.elasticsearch.cluster.ClusterStateUpdateTask;
import org.elasticsearch.cluster.node.DiscoveryNode;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.transport.TransportAddress;
import org.elasticsearch.common.time.TimeValue;
import java.net.InetAddress;
import static java.util.Collections.emptyMap;
import static java.util.Collections.emptySet;
import static org.hamcrest.Matchers.containsString;
import static org.mockito.Matchers.any;
import static org.mockito.Mockito.times;
import static org.mockito.Mockito.verify;

public class LicenseTLSTests extends AbstractLicenseServiceTestCase {

    private InetAddress inetAddress;

    public void testApplyLicenseInDevMode() throws Exception {
        License newLicense = TestUtils.generateSignedLicense(randomFrom("gold", "platinum"),
            TimeValue.timeValueHours(24L));
        PutLicenseRequest request = new PutLicenseRequest();
        request.acknowledge(true);
        request.license(newLicense);
        Settings settings = Settings.builder().put("xpack.security.enabled", true).build();
        XPackLicenseState licenseState = new XPackLicenseState(settings);
        inetAddress = InetAddress.getLoopbackAddress();
        setInitialState(null, licenseState, settings);
        licenseService.start();
        PlainActionFuture<PutLicenseResponse> responseFuture = new PlainActionFuture<>();
        licenseService.registerLicense(request, responseFuture);
        verify(clusterService).submitStateUpdateTask(any(String.class), any(ClusterStateUpdateTask.class));
        inetAddress = TransportAddress.META_ADDRESS;
        settings = Settings.builder()
            .put("xpack.security.enabled", true)
            .put("discovery.type", "single-node")
            .build();
        licenseService.stop();
        licenseState = new XPackLicenseState(settings);
        setInitialState(null, licenseState, settings);
        licenseService.start();
        licenseService.registerLicense(request, responseFuture);
        verify(clusterService, times(2)).submitStateUpdateTask(any(String.class), any(ClusterStateUpdateTask.class));
    }

    public void testApplyLicenseInProdMode() throws Exception {
        final String licenseType = randomFrom("GOLD", "PLATINUM");
        License newLicense = TestUtils.generateSignedLicense(licenseType, TimeValue.timeValueHours(24L));
        PutLicenseRequest request = new PutLicenseRequest();
        request.acknowledge(true);
        request.license(newLicense);
        Settings settings = Settings.builder().put("xpack.security.enabled", true).build();
        XPackLicenseState licenseState = new XPackLicenseState(settings);
    }
}
inetAddress = TransportAddress.META_ADDRESS;

setInitialState(null, licenseState, settings);
licenseService.start();
PlainActionFuture<PutLicenseResponse> responseFuture = new PlainActionFuture<>();
IllegalStateException e = expectThrows(IllegalStateException.class, () ->
licenseService.registerLicense(request, responseFuture));
assertThat(e.getMessage(),
    containsString("Cannot install a \" + licenseType + \\"] license unless TLS is configured or security is disabled");

settings = Settings.builder().put("xpack.security.enabled", false).build();
licenseService.stop();
licenseState = new XPackLicenseState(settings);
setInitialState(null, licenseState, settings);
licenseService.start();
licenseService.registerLicense(request, responseFuture);
verify(clusterService).submitStateUpdateTask(any(String.class), any(ClusterStateUpdateTask.class));

settings = Settings.builder()
    .put("xpack.security.enabled", true)
    .put("xpack.security.transport.ssl.enabled", true)
    .build();
licenseService.stop();
licenseState = new XPackLicenseState(settings);
setInitialState(null, licenseState, settings);
licenseService.start();
licenseService.registerLicense(request, responseFuture);
verify(clusterService, times(2)).submitStateUpdateTask(any(String.class), any(ClusterStateUpdateTask.class));
}

@override
protected DiscoveryNode getLocalNode() {
    return new DiscoveryNode("localnode", new TransportAddress(inetAddress, randomIntBetween(9300, 9399)),
        emptyMap(), emptySet(), Version.CURRENT);
}
*/

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* /

package org.elasticsearch.license;

import org.elasticsearch.action.ActionFuture;
import org.elasticsearch.common.bytes.BytesArray;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.unit.TimeValue;
import org.elasticsearch.common.xcontent.XContentType;
import org.elasticsearch.node.Node;
import org.elasticsearch.plugins.Plugin;
import org.elasticsearch.test.ESSingleNodeTestCase;
import org.elasticsearch.xpack.core.LocalStateCompositeXPackPlugin;
import org.elasticsearch.xpack.core.XPackSettings;
import java.nio.charset.StandardCharsets;
import java.util.Collection;
import java.util.Collections;
import java.util.UUID;

import static org.elasticsearch.license.TestUtils.dateMath;
import static org.elasticsearch.license.TestUtils.generateExpiredNonBasicLicense;
import static org.elasticsearch.license.TestUtils.generateSignedLicense;
import static org.hamcrest.CoreMatchers.equalTo;
import static org.hamcrest.CoreMatchers.not;

public class LicensesTransportTests extends ESSingleNodeTestCase {

    @Override
    protected boolean resetNodeAfterTest() {
        return true;
    }

    @Override
    protected Collection<Class<? extends Plugin>> getPlugins() {
        return Collections.singletonList(LocalStateCompositeXPackPlugin.class);
    }

    @Override
    protected Settings nodeSettings() {
        Settings.Builder newSettings = Settings.builder();
        newSettings.put(super.nodeSettings());
        newSettings.put(XPackSettings.SECURITY_ENABLED.getKey(), false);
        //        newSettings.put(XPackSettings.MONITORING_ENABLED.getKey(), false);
        //        newSettings.put(XPackSettings.WATCHER_ENABLED.getKey(), false);
        newSettings.put(Node.NODE_DATA_SETTING.getKey(), true);
        return newSettings.build();
    }

    public void testEmptyGetLicense() throws Exception {
        // basic license is added async, we should wait for it
        assertBusy(() -> {
            try {
                final ActionFuture<GetLicenseResponse> getLicenseFuture =
                        new GetLicenseRequestBuilder(client().admin().cluster(), GetLicenseAction.INSTANCE).execute();
                final GetLicenseResponse getLicenseResponse;
            } catch (Exception e) {
                throw e;
            }
        });
    }
}
getLicenseResponse = getLicenseFuture.get();
assertNotNull(getLicenseResponse.license());
assertThat(getLicenseResponse.license().operationMode(), equalTo(License.OperationMode.BASIC));
} catch (Exception e) {
    throw new RuntimeException("unexpected exception", e);
}
});
}

public void testPutLicense() throws Exception {
    License signedLicense = generateSignedLicense(TimeValue.timeValueMinutes(2));

    // put license
    PutLicenseRequestBuilder putLicenseRequestBuilder =
        new PutLicenseRequestBuilder(client().admin().cluster(),
        PutLicenseAction.INSTANCE).setLicense(signedLicense)
        .setAcknowledge(true);
    PutLicenseResponse putLicenseResponse = putLicenseRequestBuilder.get();
    assertThat(putLicenseResponse.isAcknowledged(), equalTo(true));
    assertThat(putLicenseResponse.status(), equalTo(LicensesStatus.VALID));

    // get and check license
    GetLicenseResponse getLicenseResponse = new GetLicenseRequestBuilder(client().admin().cluster(),
    GetLicenseAction.INSTANCE).get();
    assertThat(getLicenseResponse.license(), equalTo(signedLicense));
}

public void testPutLicenseFromString() throws Exception {
    License signedLicense = generateSignedLicense(TimeValue.timeValueMinutes(2));
    String licenseString = TestUtils.dumpLicense(signedLicense);

    // put license source
    PutLicenseRequestBuilder putLicenseRequestBuilder =
        new PutLicenseRequestBuilder(client().admin().cluster(), PutLicenseAction.INSTANCE)
        .setLicense(new BytesArray(licenseString.getBytes(StandardCharsets.UTF_8)),
        XContentType.JSON)
        .setAcknowledge(true);
    PutLicenseResponse putLicenseResponse = putLicenseRequestBuilder.get();
    assertThat(putLicenseResponse.isAcknowledged(), equalTo(true));
    assertThat(putLicenseResponse.status(), equalTo(LicensesStatus.VALID));

    // get and check license
    GetLicenseResponse getLicenseResponse = new GetLicenseRequestBuilder(client().admin().cluster(),
    GetLicenseAction.INSTANCE).get();
    assertThat(getLicenseResponse.license(), equalTo(signedLicense));
}

public void testPutInvalidLicense() throws Exception {


License signedLicense = generateSignedLicense(TimeValue.timeValueMinutes(2));

// modify content of signed license
License tamperedLicense = License.builder()
  .fromLicenseSpec(signedLicense, signedLicense.signature())
  .expiryDate(signedLicense.expiryDate() + 10 * 24 * 60 * 60 * 1000L)
  .validate()
  .build();

PutLicenseRequestBuilder builder = new PutLicenseRequestBuilder(client().admin().cluster(),
  PutLicenseAction.INSTANCE);
    builder.setLicense(tamperedLicense);

    // try to put license (should be invalid)
    final PutLicenseResponse putLicenseResponse = builder.get();
    assertThat(putLicenseResponse.status(), equalTo(LicensesStatus.INVALID));

    // try to get invalid license
    GetLicenseResponse getLicenseResponse = new GetLicenseRequestBuilder(client().admin().cluster(),
      GetLicenseAction.INSTANCE).get();
    assertThat(getLicenseResponse.license(), not(tamperedLicense));
}

public void testPutBasicLicenseIsInvalid() throws Exception {
  License signedLicense = generateSignedLicense("basic", License.VERSION_CURRENT, -1,
    TimeValue.timeValueMinutes(2));

  PutLicenseRequestBuilder builder = new PutLicenseRequestBuilder(client().admin().cluster(),
    PutLicenseAction.INSTANCE);
    builder.setLicense(signedLicense);

    // try to put license (should be invalid)
    IllegalArgumentException iae = expectThrows(IllegalArgumentException.class, builder::get);
    assertEquals(iae.getMessage(), "Registering basic licenses is not allowed.");

    // try to get invalid license
    GetLicenseResponse getLicenseResponse = new GetLicenseRequestBuilder(client().admin().cluster(),
      GetLicenseAction.INSTANCE).get();
    assertThat(getLicenseResponse.license(), not(signedLicense));
}

public void testPutExpiredLicense() throws Exception {
  License expiredLicense = generateExpiredNonBasicLicense();

  PutLicenseRequestBuilder builder = new PutLicenseRequestBuilder(client().admin().cluster(),
    PutLicenseAction.INSTANCE);
    builder.setLicense(expiredLicense);

    // try to put license (should be invalid)
    IllegalArgumentException iae = expectThrows(IllegalArgumentException.class, builder::get);
    assertEquals(iae.getMessage(), "Registering basic licenses is not allowed.");

    // try to get invalid license
    GetLicenseResponse getLicenseResponse = new GetLicenseRequestBuilder(client().admin().cluster(),
      GetLicenseAction.INSTANCE).get();
    assertThat(getLicenseResponse.license(), not(expiredLicense));
}

public void testPutBasicLicenseIsInvalid() throws Exception {
  License expiredLicense = generateExpiredNonBasicLicense();

  PutLicenseRequestBuilder builder = new PutLicenseRequestBuilder(client().admin().cluster(),
    PutLicenseAction.INSTANCE);
    builder.setLicense(expiredLicense);

    // try to put license (should be invalid)
    IllegalArgumentException iae = expectThrows(IllegalArgumentException.class, builder::get);
    assertEquals(iae.getMessage(), "Registering basic licenses is not allowed.");

    // try to get invalid license
    GetLicenseResponse getLicenseResponse = new GetLicenseRequestBuilder(client().admin().cluster(),
      GetLicenseAction.INSTANCE).get();
    assertThat(getLicenseResponse.license(), not(expiredLicense));
}
get license should not return the expired license
GetLicenseResponse getLicenseResponse = new GetLicenseRequestBuilder(client().admin().cluster(),
GetLicenseAction.INSTANCE).get();
assertThat(getLicenseResponse.license(), not(expiredLicense));
}

public void testPutLicensesSimple() throws Exception {
License goldSignedLicense = generateSignedLicense("gold", TimeValue.timeValueMinutes(5));
PutLicenseRequestBuilder putLicenseRequestBuilder =
    new PutLicenseRequestBuilder(client().admin().cluster(),
    PutLicenseAction.INSTANCE).setLicense(goldSignedLicense)
        .setAcknowledge(true);
putLicenseRequestBuilder.get();
assertThat(putLicenseResponse.isAcknowledged(), equalTo(true));
getLicenseResponse = new GetLicenseRequestBuilder(client().admin().cluster(),
GetLicenseAction.INSTANCE).get();
assertThat(getLicenseResponse.isAcknowledged(), equalTo(true));
GetLicenseResponse getLicenseResponse = new GetLicenseRequestBuilder(client().admin().cluster(),
GetLicenseAction.INSTANCE).get();
assertThat(getLicenseResponse.status(), equalTo(LicensesStatus.VALID));
}

License platinumSignedLicense = generateSignedLicense("platinum", TimeValue.timeValueMinutes(2));
putLicenseRequestBuilder.setLicense(platinumSignedLicense);
putLicenseResponse = putLicenseRequestBuilder.get();
assertThat(putLicenseResponse.isAcknowledged(), equalTo(true));
assertThat(putLicenseResponse.status(), equalTo(LicensesStatus.VALID));
getLicenseResponse = new GetLicenseRequestBuilder(client().admin().cluster(),
GetLicenseAction.INSTANCE).get();
assertThat(getLicenseResponse.license(), equalTo(platinumSignedLicense));
}

public void testRemoveLicensesSimple() throws Exception {
License goldLicense = generateSignedLicense("gold", TimeValue.timeValueMinutes(5));
PutLicenseRequestBuilder putLicenseRequestBuilder =
    new PutLicenseRequestBuilder(client().admin().cluster(),
    PutLicenseAction.INSTANCE).setLicense(goldLicense)
        .setAcknowledge(true);
putLicenseRequestBuilder.get();
assertThat(putLicenseResponse.isAcknowledged(), equalTo(true));
assertThat(putLicenseResponse.status(), equalTo(LicensesStatus.VALID));
License goldLicense = generateSignedLicense("gold", TimeValue.timeValueMinutes(5));
PutLicenseRequestBuilder putLicenseRequestBuilder =
    new PutLicenseRequestBuilder(client().admin().cluster(),
    PutLicenseAction.INSTANCE).setLicense(goldLicense)
        .setAcknowledge(true);
putLicenseRequestBuilder.get();
assertThat(putLicenseResponse.isAcknowledged(), equalTo(true));
assertThat(putLicenseResponse.status(), equalTo(LicensesStatus.VALID));
getLicenseResponse = new GetLicenseRequestBuilder(client().admin().cluster(),
GetLicenseAction.INSTANCE).get();
assertThat(getLicenseResponse.license(), equalTo(goldLicense));
// delete all licenses
DeleteLicenseRequestBuilder deleteLicenseRequestBuilder =
    new DeleteLicenseRequestBuilder(client().admin().cluster(), DeleteLicenseAction.INSTANCE);
deleteLicenseResponse = deleteLicenseRequestBuilder.get();
assertThat(deleteLicenseResponse.isAcknowledged(), equalTo(true));
getLicenseResponse = new GetLicenseRequestBuilder(client().admin().cluster(),
GetLicenseAction.INSTANCE).get();
public void testLicenseIsRejectWhenStartDateLaterThanNow() throws Exception {
    long now = System.currentTimeMillis();
    final License.Builder builder = License.builder()
        .uid(UUID.randomUUID().toString())
        .version(License.VERSION_CURRENT)
        .expiryDate(dateMath("now+2h", now))
        .startDate(dateMath("now+1h", now))
        .issueDate(now)
        .type(License.OperationMode.TRIAL.toString())
        .issuedTo("customer")
        .issuer("elasticsearch")
        .maxNodes(5);
    License license = TestUtils.generateSignedLicense(builder);
    PutLicenseRequestBuilder putLicenseRequestBuilder =
        new PutLicenseRequestBuilder(client().admin().cluster(),
            PutLicenseAction.INSTANCE).setLicense(license)
            .setAcknowledge(true);
    PutLicenseResponse putLicenseResponse = putLicenseRequestBuilder.get();
    assertThat(putLicenseResponse.isAcknowledged(), equalTo(true));
    assertThat(putLicenseResponse.status(), equalTo(LicensesStatus.INVALID));
}

public void testLicenseIsAcceptedWhenStartDateBeforeThanNow() throws Exception {
    long now = System.currentTimeMillis();
    final License.Builder builder = License.builder()
        .uid(UUID.randomUUID().toString())
        .version(License.VERSION_CURRENT)
        .expiryDate(dateMath("now+2h", now))
        .startDate(now)
        .issueDate(now)
        .type(License.OperationMode.TRIAL.toString())
        .issuedTo("customer")
        .issuer("elasticsearch")
        .maxNodes(5);
    License license = TestUtils.generateSignedLicense(builder);
    PutLicenseRequestBuilder putLicenseRequestBuilder =
        new PutLicenseRequestBuilder(client().admin().cluster(),
            PutLicenseAction.INSTANCE).setLicense(license)
            .setAcknowledge(true);
    PutLicenseResponse putLicenseResponse = putLicenseRequestBuilder.get();
    assertThat(putLicenseResponse.isAcknowledged(), equalTo(true));
    assertThat(putLicenseResponse.status(), equalTo(LicensesStatus.VALID));
}
public class LicensesAcknowledgementTests extends AbstractLicenseServiceTestCase {

    public void testAcknowledgment() throws Exception {
        XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
        setInitialState(TestUtils.generateSignedLicense("gold", timeValueHours(2)), licenseState, Settings.EMPTY);
        licenseService.start();
        // try installing a signed license
        long issueDate = System.currentTimeMillis() - TimeValue.timeValueHours(24 * 2).getMillis();
        License signedLicense = TestUtils.generateSignedLicense("trial", License.VERSION_CURRENT, issueDate,
                timeValueHours(10));
        PutLicenseRequest putLicenseRequest = new PutLicenseRequest().license(signedLicense);
        // ensure acknowledgement message was part of the response
        licenseService.registerLicense(putLicenseRequest, new AssertingLicensesUpdateResponse(false,
                LicensesStatus.VALID, true));
        assertThat(licenseService.getLicense(), not(signedLicense));
        verify(clusterService, times(0)).submitStateUpdateTask(any(String.class), any(ClusterStateUpdateTask.class));
        // try installing a signed license with acknowledgement
        putLicenseRequest = new PutLicenseRequest().license(signedLicense).acknowledge(true);
        // ensure license was installed and no acknowledgment message was returned
        licenseService.registerLicense(putLicenseRequest, new AssertingLicensesUpdateResponse(true,
                LicensesStatus.VALID, false));
        verify(clusterService, times(1)).submitStateUpdateTask(any(String.class), any(ClusterStateUpdateTask.class));
    }

    public void testRejectUpgradeToProductionWithoutTLS() throws Exception {
        XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
        setInitialState(TestUtils.generateSignedLicense("trial", timeValueHours(2)), licenseState, Settings.EMPTY);
        PutLicenseRequest putLicenseRequest = new PutLicenseRequest().license(new License("trial", License.VERSION_CURRENT, IssueDate.ZERO, TimeValue.ZERO, 0));
        // try installing a signed license
        licenseService.registerLicense(putLicenseRequest, new AssertingLicensesUpdateResponse(false,
                LicensesStatus.INVALID, true));
        verify(clusterService, times(0)).submitStateUpdateTask(any(String.class), any(ClusterStateUpdateTask.class));
    }
}
licenseService.start();

// try installing a signed license
License signedLicense = TestUtils.generateSignedLicense("platinum", timeValueHours(10));
PutLicenseRequest putLicenseRequest = new PutLicenseRequest().license(signedLicense);

// ensure acknowledgement message was part of the response
IllegalStateException ise = expectThrows(IllegalStateException.class, () ->
    licenseService.registerLicense(putLicenseRequest, new AssertingLicensesUpdateResponse(false,
    LicensesStatus.VALID, true)));

assertEquals("Cannot install a [PLATINUM] license unless TLS is configured or security is disabled",
    ise.getMessage());
}

public void testUpgradeToProductionWithoutTLSAndSecurityDisabled() throws Exception {
    XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
    setInitialState(TestUtils.generateSignedLicense("trial", timeValueHours(2)), licenseState,
        Settings.builder()
            .put("xpack.security.enabled", false).build());

    licenseService.start();

    // try installing a signed license
    License signedLicense = TestUtils.generateSignedLicense("platinum", timeValueHours(10));
    PutLicenseRequest putLicenseRequest = new PutLicenseRequest().license(signedLicense);
    licenseService.registerLicense(putLicenseRequest, new AssertingLicensesUpdateResponse(false,
        LicensesStatus.VALID, true));

    assertThat(licenseService.getLicense(), not(signedLicense));

    verify(clusterService, times(1)).submitStateUpdateTask(any(String.class), any(ClusterStateUpdateTask.class));

    // try installing a signed license with acknowledgement
    putLicenseRequest = new PutLicenseRequest().license(signedLicense).acknowledge(true);

    // ensure license was installed and no acknowledgment message was returned
    licenseService.registerLicense(putLicenseRequest, new AssertingLicensesUpdateResponse(true,
        LicensesStatus.VALID, false));

    verify(clusterService, times(2)).submitStateUpdateTask(any(String.class), any(ClusterStateUpdateTask.class));

}

public void testUpgradeToProductionWithTLSAndSecurity() throws Exception {
    XPackLicenseState licenseState = new XPackLicenseState(Settings.EMPTY);
    setInitialState(TestUtils.generateSignedLicense("trial", timeValueHours(2)), licenseState,
        Settings.builder()
            .put("xpack.security.enabled", true)
            .put("xpack.security.transport.ssl.enabled", true).build());

    licenseService.start();

    // try installing a signed license
    License signedLicense = TestUtils.generateSignedLicense("platinum", timeValueHours(10));
    PutLicenseRequest putLicenseRequest = new PutLicenseRequest().license(signedLicense);
    licenseService.registerLicense(putLicenseRequest, new AssertingLicensesUpdateResponse(false,
        LicensesStatus.VALID, true));

    assertThat(licenseService.getLicense(), not(signedLicense));

    verify(clusterService, times(1)).submitStateUpdateTask(any(String.class), any(ClusterStateUpdateTask.class));

    // try installing a signed license with acknowledgement

putLicenseRequest = new PutLicenseRequest().license(signedLicense).acknowledge(true);
// ensure license was installed and no acknowledgment message was returned
licenseService.registerLicense(putLicenseRequest, new AssertingLicensesUpdateResponse(true,
LicensesStatus.VALID, false));
verify(clusterService, times(2)).submitStateUpdateTask(any(String.class), any(ClusterStateUpdateTask.class));
}

private static class AssertingLicensesUpdateResponse implements ActionListener<PutLicenseResponse> {
private final boolean expectedAcknowledgement;
private final LicensesStatus expectedStatus;
private final boolean expectAckMessages;
AssertingLicensesUpdateResponse(boolean expectedAcknowledgement, LicensesStatus expectedStatus,
boolean expectAckMessages) {
this.expectedAcknowledgement = expectedAcknowledgement;
this.expectedStatus = expectedStatus;
this.expectAckMessages = expectAckMessages;
}

@Override
public void onResponse(PutLicenseResponse licensesUpdateResponse) {
assertThat(licensesUpdateResponse.isAcknowledged(), equalTo(expectedAcknowledgement));
assertThat(licensesUpdateResponse.status(), equalTo(expectedStatus));
assertEquals(licensesUpdateResponse.acknowledgeMessages().isEmpty(), expectAckMessages == false);
}

@Override
public void onFailure(Exception throwable) {
throw new RuntimeException(throwable);
}
}

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 */
package org.elasticsearch.license;

import org.elasticsearch.Version;
import org.elasticsearch.cluster.ClusterName;
import org.elasticsearch.cluster.ClusterState;
import org.elasticsearch.cluster.block.ClusterBlocks;
import org.elasticsearch.cluster.metadata.MetaData;
import org.elasticsearch.cluster.node.DiscoveryNode;
import org.elasticsearch.cluster.node.DiscoveryNodes;
import org.elasticsearch.cluster.service.ClusterService;
import org.elasticsearch.common.component.Lifecycle;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.env.Environment;
import org.elasticsearch.test.ESTestCase;
import org.elasticsearch.watcher.ResourceWatcherService;
import org.elasticsearch.xpack.core.XPackPlugin;
import org.elasticsearch.xpack.core.watcher.watch.ClockMock;
import org.elasticsearch.junit.After;
import org.elasticsearch.junit.Before;
import java.nio.file.Path;
import java.util.Arrays;
import static java.util.Collections.emptySet;
import static java.util.Collections.singletonMap;
import static org.mockito.Mockito.mock;
import static org.mockito.Mockito.when;

public abstract class AbstractLicenseServiceTestCase extends ESTestCase {

    protected LicenseService licenseService;
    protected ClusterService clusterService;
    protected ResourceWatcherService resourceWatcherService;
    protected ClockMock clock;
    protected DiscoveryNodes discoveryNodes;
    protected Environment environment;
    protected String licenseType;

    @Before
    public void init() throws Exception {
        clusterService = mock(ClusterService.class);
        clock = ClockMock.frozen();
        discoveryNodes = mock(DiscoveryNodes.class);
        resourceWatcherService = mock(ResourceWatcherService.class);
        environment = mock(Environment.class);
    }

    protected void setInitialState(License license, XPackLicenseState licenseState, Settings settings) {
        setInitialState(license, licenseState, settings, randomBoolean() ? "trial" : "basic");
    }

    protected void setInitialState(License license, XPackLicenseState licenseState, Settings settings, String selfGeneratedType) {
        Path tempDir = createTempDir();
        when(environment.configFile()).thenReturn(tempDir);
        licenseType = selfGeneratedType;
        settings = Settings.builder().put(settings).put(LicenseService.SELF_GENERATED_LICENSE_TYPE.getKey(), licenseType).build();
    }

}
licenseService = new LicenseService(settings, clusterService, clock, environment, resourceWatcherService, licenseState);
ClusterState state = mock(ClusterState.class);
final ClusterBlocks noBlock = ClusterBlocks.builder().build();
when(state.blocks()).thenReturn(noBlock);
MetaData metaData = mock(MetaData.class);
when(metaData.custom(LicensesMetaData.TYPE)).thenReturn(new LicensesMetaData(license, null));
when(state.metaData()).thenReturn(metaData);
final DiscoveryNode mockNode = getLocalNode();
when(discoveryNodes.getMasterNode()).thenReturn(mockNode);
when(discoveryNodes.spliterator()).thenReturn(Arrays.asList(mockNode).spliterator());
when(discoveryNodes.isLocalNodeElectedMaster()).thenReturn(false);
when(state.nodes()).thenReturn(discoveryNodes);
when(state.getNodes()).thenReturn(discoveryNodes); // it is really ridiculous we have nodes() and getNodes()...
when(clusterService.state()).thenReturn(state);
when(clusterService.lifecycleState()).thenReturn(Lifecycle.State.STARTED);
when(clusterService.getClusterName()).thenReturn(new ClusterName("a"));
when(clusterService.localNode()).thenReturn(mockNode);
}

protected DiscoveryNode getLocalNode() {
    return new DiscoveryNode("b", buildNewFakeTransportAddress(),
            singletonMap(XPackPlugin.XPACK_INSTALLED_NODE_ATTR, "true"),
            emptySet(), Version.CURRENT);
}

@After
public void tearDown() throws Exception {
    super.tearDown();
    licenseService.stop();
}

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*/
package org.elasticsearch.license;

import org.elasticsearch.Version;
import org.elasticsearch.cluster.ClusterChangedEvent;
import org.elasticsearch.cluster.ClusterName;
import org.elasticsearch.cluster.ClusterState;
import org.elasticsearch.cluster.ClusterStateUpdateTask;
import org.elasticsearch.cluster.metadata.MetaData;
import org.elasticsearch.cluster.cluster.node.DiscoveryNode;
import org.elasticsearch.cluster.cluster.node.DiscoveryNodes;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.unit.TimeValue;
import org.junit.After;
import org.junit.Before;
import org.mockito.ArgumentCaptor;
import static java.util.Collections.emptyMap;
import static java.util.Collections.emptySet;
import static org.hamcrest.Matchers.equalTo;
import static org.mockito.Matchers.any;
import static org.mockito.Mockito.times;
import static org.mockito.Mockito.verify;
import static org.mockito.Mockito.when;

public class LicenseClusterChangeTests extends AbstractLicenseServiceTestCase {

    private TestUtils.AssertingLicenseState licenseState;

    @Before
    public void setup() {
        licenseState = new TestUtils.AssertingLicenseState();
        setInitialState(null, licenseState, Settings.EMPTY);
        licenseService.start();
    }

    @After
    public void teardown() {
        licenseService.stop();
    }

    public void testNotificationOnNewLicense() throws Exception {
        ClusterState oldState = ClusterState.builder(new ClusterName("a")).build();
        final License license = TestUtils.generateSignedLicense(TimeValue.timeValueHours(24));
        MetaData metaData = MetaData.builder().putCustom(LicensesMetaData.TYPE, new LicensesMetaData(license, null)).build();
        ClusterState newState = ClusterState.builder(new ClusterName("a")).metaData(metaData).build();
        licenseService.clusterChanged(new ClusterChangedEvent("simulated", newState, oldState));
        assertThat(licenseState.activeUpdates.size(), equalTo(1));
        assertTrue(licenseState.activeUpdates.get(0));
    }

    public void testNoNotificationOnExistingLicense() throws Exception {
        final License license = TestUtils.generateSignedLicense(TimeValue.timeValueHours(24));
        MetaData metaData = MetaData.builder().putCustom(LicensesMetaData.TYPE, new LicensesMetaData(license, null)).build();
        ClusterState newState = ClusterState.builder(new ClusterName("a")).metaData(metaData).build();
        licenseService.clusterChanged(new ClusterChangedEvent("simulated", newState, oldState));
        assertThat(licenseState.activeUpdates.size(), equalTo(1));
        assertTrue(licenseState.activeUpdates.get(0));
    }
}
assertThat(licenseState.activeUpdates.size(), equalTo(0));
}

public void testSelfGeneratedLicenseGeneration() throws Exception {
    DiscoveryNode master = new DiscoveryNode("b", buildNewFakeTransportAddress(), emptyMap(), emptySet(), Version.CURRENT);
    ClusterState oldState = ClusterState.builder(new ClusterName("a")
        .nodes(DiscoveryNodes.builder().masterNodeId(master.getId()).add(master)).build();
    when(discoveryNodes.isLocalNodeElectedMaster()).thenReturn(true);
    ClusterState newState = ClusterState.builder(oldState).nodes(discoveryNodes).build();

    licenseService.clusterChanged(new ClusterChangedEvent("simulated", newState, oldState));
    ArgumentCaptor<ClusterStateUpdateTask> stateUpdater = 
        ArgumentCaptor.forClass(ClusterStateUpdateTask.class);
    verify(clusterService, times(1)).submitStateUpdateTask(any(), stateUpdater.capture());
    ClusterState stateWithLicense = stateUpdater.getValue().execute(newState);
    LicensesMetaData licenseMetaData = stateWithLicense.metaData().custom(LicensesMetaData.TYPE);
    assertNotNull(licenseMetaData);
    assertNotNull(licenseMetaData.getLicense());
    assertEquals(licenseType, licenseMetaData.getLicense().type());
    long expiration;
    if (licenseType.equals("basic")) {
        expiration = LicenseService.BASIC_SELF_GENERATED_LICENSE_EXPIRATION_MILLIS;
    } else {
        expiration = LicenseService.NON_BASIC_SELF_GENERATED_LICENSE_DURATION.millis() +
            clock.millis();
    }
    assertEquals(expiration, licenseMetaData.getLicense().expiryDate());
}
*/

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 */

package org.elasticsearch.xpack.core.security.authz.permission;

import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.test.ESTestCase;
import java.util.ArrayList;
import java.util.Arrays;
import java.util.Collections;
import java.util.List;

public class FieldPermissionsCacheTests extends ESTestCase {

    public void testFieldPermissionsCaching() {

FieldPermissionsCache fieldPermissionsCache = new FieldPermissionsCache(Settings.EMPTY);
String[] allowed = new String[] {randomAlphaOfLength(5) + "*", randomAlphaOfLength(5) + "*", randomAlphaOfLength(5) + "*"};
FieldPermissions fieldPermissions = fieldPermissionsCache.getFieldPermissions(allowed, denied);
assertNotNull(fieldPermissions);
final String[] allowed2 = randomBoolean() ? allowed : Arrays.copyOf(allowed, allowed.length);
final String[] denied2 = randomBoolean() ? denied : Arrays.copyOf(denied, denied.length);
same(fieldPermissions, fieldPermissionsCache.getFieldPermissions(allowed2, denied2));

public void testMergeFieldPermissions() {
  FieldPermissionsCache fieldPermissionsCache = new FieldPermissionsCache(Settings.EMPTY);
  String allowedPrefix1 = randomAlphaOfLength(5);
  String allowedPrefix2 = randomAlphaOfLength(5);
  String[] allowed1 = new String[] {allowedPrefix1 + "*"};
  String[] allowed2 = new String[] {allowedPrefix2 + "*"};
  String[] denied1 = new String[] {allowedPrefix1 + "a"};
  String[] denied2 = new String[] {allowedPrefix2 + "a"};
  FieldPermissions fieldPermissions1 = randomBoolean() ?
    fieldPermissionsCache.getFieldPermissions(allowed1, denied1) :
    new FieldPermissions(fieldPermissionDef(allowed1, denied1));
  FieldPermissions fieldPermissions2 = randomBoolean() ?
    fieldPermissionsCache.getFieldPermissions(allowed2, denied2) :
    new FieldPermissions(fieldPermissionDef(allowed2, denied2));
  FieldPermissions mergedFieldPermissions =
    fieldPermissionsCache.getFieldPermissions(Arrays.asList(fieldPermissions1, fieldPermissions2));
  assertTrue(mergedFieldPermissions.grantsAccessTo(allowedPrefix1 + "b"));
  assertTrue(mergedFieldPermissions.grantsAccessTo(allowedPrefix2 + "b"));
  assertFalse(mergedFieldPermissions.grantsAccessTo(denied1[0]));
  assertFalse(mergedFieldPermissions.grantsAccessTo(denied2[0]));
  allowed1 = new String[] {randomAlphaOfLength(5) + "*", randomAlphaOfLength(5) + "*"};
  allowed2 = null;
  denied1 = new String[] {allowed1[0] + "a", allowed1[1] + "a"};
  denied2 = null;
  fieldPermissions1 = randomBoolean() ? fieldPermissionsCache.getFieldPermissions(allowed1, denied1) :
    new FieldPermissions(fieldPermissionDef(allowed1, denied1));
  fieldPermissions2 = randomBoolean() ? fieldPermissionsCache.getFieldPermissions(allowed2, denied2) :
    new FieldPermissions(fieldPermissionDef(allowed2, denied2));
  mergedFieldPermissions =
    fieldPermissionsCache.getFieldPermissions(Arrays.asList(fieldPermissions1, fieldPermissions2));
  assertFalse(mergedFieldPermissions.hasFieldLevelSecurity());
  allowed1 = new String[] {};
  allowed2 = new String[] {randomAlphaOfLength(5) + "*", randomAlphaOfLength(5) + "*"};
denied1 = new String[{}];
denied2 = new String[[][]][0] + "a", allowed2[1] + "a";
fieldPermissions1 = randomBoolean() ? fieldPermissionsCache.getFieldPermissions(allowed1, denied1) :
    new FieldPermissions(fieldPermissionDef(allowed1, denied1));
fieldPermissions2 = randomBoolean() ? fieldPermissionsCache.getFieldPermissions(allowed2, denied2) :
    new FieldPermissions(fieldPermissionDef(allowed2, denied2));
mergedFieldPermissions =
    fieldPermissionsCache.getFieldPermissions(Arrays.asList(fieldPermissions1, fieldPermissions2));
for (String field : allowed2) {
    assertTrue(mergedFieldPermissions.grantsAccessTo(field));
}
for (String field : denied2) {
    assertFalse(mergedFieldPermissions.grantsAccessTo(field));
}
allowed1 = randomBoolean() ? null : new String[[]]["*"];
allowed2 = randomBoolean() ? null : new String[[]]["*"];
denied1 = new String[[]]["a"];
denied2 = new String[[]]["b"];
fieldPermissions1 = randomBoolean() ? fieldPermissionsCache.getFieldPermissions(allowed1, denied1) :
    new FieldPermissions(fieldPermissionDef(allowed1, denied1));
fieldPermissions2 = randomBoolean() ? fieldPermissionsCache.getFieldPermissions(allowed2, denied2) :
    new FieldPermissions(fieldPermissionDef(allowed2, denied2));
mergedFieldPermissions =
    fieldPermissionsCache.getFieldPermissions(Arrays.asList(fieldPermissions1, fieldPermissions2));
assertTrue(mergedFieldPermissions.grantsAccessTo("a"));
assertTrue(mergedFieldPermissions.grantsAccessTo("b"));
permissionsList.add(new FieldPermissions(fieldPermissionDef(new String[] {"field2", "query*"}, null)));  
permissionsList.add(new FieldPermissions(fieldPermissionDef(new String[] {"field1", "field2"}, null)));  
permissionsList.add(new FieldPermissions(fieldPermissionDef(new String[] {}, null)));  
permissionsList.add(new FieldPermissions(fieldPermissionDef(null, null)));  

FieldPermissionsCache cache = new FieldPermissionsCache(Settings.EMPTY);  
for (int i = 0; i < scaledRandomIntBetween(1, 12); i++) {  
    Collections.shuffle(permissionsList, random());  
    FieldPermissions result = cache.getFieldPermissions(permissionsList);  
    assertFalse(result.hasFieldLevelSecurity());  
}  

private static FieldPermissionsDefinition fieldPermissionDef(String[] granted, String[] denied) {  
    return new FieldPermissionsDefinition(granted, denied);  
}  

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based on this library. If you modify this library, you may extend this
exception to your version of the library, but you are not obligated to
do so. If you do not wish to do so, delete this exception statement
from your version.

{  
  "xpack.license.get_basic_status": {  
    "methods": ["GET"],
    "url": {  
      "path": "/_xpack/license/basic_status",
      "paths": ["/_xpack/license/basic_status"],
      "parts": {  
        "params": {  
          }  
      }  
      },
    "body": null  
  }  
}
"xpack.license.get_trial_status": {
  "methods": ["GET"],
  "url": {
    "path": "/_xpack/license/trial_status",
    "paths": ["/_xpack/license/trial_status"],
    "parts": {},
    "params": { }
  },
  "body": null
}

"xpack.license.delete": {
  "methods": ["DELETE"],
  "url": {
    "path": "/_xpack/license",
    "paths": ["/_xpack/license"],
    "parts": {},
    "body": null
  }
}

"xpack.license.post_start_trial": {
  "methods": ["POST"],
  "url": {
    "path": "/_xpack/license/start_trial",
    "paths": ["/_xpack/license/start_trial"],
    "parts": {},
    "params": {
      "type": {
        "type": "string",
        "description": "The type of trial license to generate (default: \"trial\")"
      },
      "acknowledge": {
        "type": "boolean",
        "description": "whether the user has acknowledged acknowledge messages (default: false)"
      }
    },
    "body": null
"xpack.license.post_start_basic": {
  "methods": ["POST"],
  "url": {
    "path": "/_xpack/license/start_basic",
    "paths": ["/_xpack/license/start_basic"],
    "parts": [],
    "params": {
      "acknowledge": {
        "type": "boolean",
        "description": "whether the user has acknowledged acknowledge messages (default: false)"
      }
    },
    "body": null
  }
}

"xpack.license.get": {
  "methods": ["GET"],
  "url": {
    "path": "/_xpack/license",
    "paths": ["/_xpack/license"],
    "parts": [],
    "params": {
      "local": {
        "type": "boolean",
        "description": "Return local information, do not retrieve the state from master node (default: false)"
      }
    },
    "body": null
  }
}

"xpack.license.post": {
  "methods": ["PUT", "POST"],
  "url": {
    "path": "/_xpack/license",
    "paths": ["/_xpack/license"],
    "parts": [""
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---

disable:
- do:
  xpack.license.post:
  acknowledge: true
  body: |
  |
  ---

"description": "Disables license for specified nodes, if present."

---

teardown:
- do:
  xpack.license.post:
  acknowledge: true
  body: |
  |
  ---

"description": "Validates license for specified nodes, if present."

---

disable:
- do:
  xpack.license.post:
  acknowledge: true
  body: |
  |
  ---

"description": "Removes license from specified nodes, if present."

---

"Installing and getting license works":

## current license version
- do:
  xpack.license.post:
  acknowledge: true
  body: |
  |
  ---

"Installing and getting license works":

## current license version
- do:
  xpack.license.post:
  acknowledge: true
  body: |
  |
  ---

"Installing and getting license works":

---

"Installing and getting license works":

## current license version
- do:
  xpack.license.post:
  acknowledge: true
  body: |
  |
  ---

"Installing and getting license works":

---

---

---
- match: { license_status: "valid" }

- do:
  xpack.license.get: {}

## a license object has 11 attributes

- length: { license: 11 }

## bwc for licenses format

- do:
  xpack.license.post:
    acknowledge: true
    body: |
    ["licenses":[{"uid":"893361dc-9747-4997-93cb-802e3d7fa4a8","type":"gold","issue_date_in_millis":1411948800000,"expiration_date_in_millis":1914278399999,"max_nodes":1,"issued_to":null,"issuer":"AAAAMwAAAA2T3vqBBetKQaBxipAAABmcZ9NohjZDBGYnVvRxpCOW5Bb3fjZDAxOWpSBTvOMVZwUrxVkJ1PSmxakxzd35IMlhlTHNoN1N2MXMvRFe4d3jTZe3R3RZQsop2signature:0pTTHBkkrZWSQZ9iNnRQNkw15plN0lDaZCS095MXRGN1lZIpYcVYTTnFrcTE2dzhJZmZrdFQzN3JQcGwxb0U0MXZ0dJHJSERIZTVLONHzSDBByWnpoZEpHZHBEZUrTVbR8ENNSXsWWjZlZla0DzdVmeEzujniWktNWGM5TUhQV2PAMu04QfOUm4MXNuL0pSOEjhQaVB2ahhmUk9qOvhFEToF10qM0RunJSXG53Mwk2055c28Sm3rVNFhFi2JSQkFlV2UXUmVHNDZ2R3oVEkqVNVQ52luiXN5uB6rZINWkZVSmziWeaSUw9wTTJENDVvT1NCYklacUyYK2FwR9Wxa06ddMbmMzSGtQc3FWOTgz3ZucXMvQkz2RUzwMFJznZvlL2d2bDRWUzhi6U5gpDEngwFTReXNKNKkE9PQAAAQB7pGwFYGawflm9zT8OLvCLhJY1tv2uSzCQWkdXXhrwS4WrAH2uK/+PEiQ7aEpW5erLsyJ5KLA6OEZJDaP7r+mjOPuLu0t+15j4Dm7yVbZmOPHXBWc6LETE3+p0GZPyOnmsDkZSRUegTciri2R6z+mdnGrhOYM80y08KVWwhdUDHw41MK7ePo6uq73Nz49yIDg9fxa0t4ggEBPbnTDDBVQ25Aau8a0M5eg9RDRawy1KamYWara8PIGX+2YjhtUeQhmlCPdxc9wECJ7/knPss5b3ZoXQR3fyXhjcXNnHEIsblqLrMCal3plXs7ll+KYPMa2ZY/ma4P"]

- match: { license_status: "valid" }

- do:
  xpack.license.get: {}

- length: { license: 11 }

## license version: 1.x

- do:
  xpack.license.post:
    acknowledge: true
    body: |
    [

- match: { license_status: "valid" }

- do:
  xpack.license.get: {}

- length: { license: 11 }

## a license object has 11 attributes

- do:
  xpack.license.post:
    acknowledge: true
    body: |
    [

- match: { license_status: "valid" }

- do:
  xpack.license.get: {}

- length: { license: 11 }

## bwc for licenses format

- do:
  xpack.license.post:
    acknowledge: true
    body: |
    [

- match: { license_status: "valid" }

- do:
  xpack.license.get: {}

- length: { license: 11 }

## license version: 1.x

- do:
  xpack.license.post:
    acknowledge: true
    body: |
    [

- match: { license_status: "valid" }

- do:
  xpack.license.get: {}

- length: { license: 11 }

## bwc for licenses format
MVZwUrzVkJ1PSmkxaksZdW51M1hlTHNoN1N2M1MXvRFk4d3JTEZex3R3RZ0pzU3lobWJKZnQvSEFvaa0ppTHBkWkpwrZWZSQ9iNmRQknk1s1plNOldAlZCS095MXRGN111ZlpYeVTnTnrFCE2dzhJZmZrdFqN3JQeGwx0bU0MXZ0dDHSEr1zTVLH0nzSDByWnpoZEpHZHEBZjUrTVBxRENNSSXNsWYljZlolaDdezVnEzUJNiWktNWG51UThQV2plauo4Q1JOUm4MXXNuOpS0EHqVYB2azhmUk9QVzHeTfoM1JQ0RmJXSG53MWk2K055c28zSmRnVkfhl2JSQfKLFLV2XUMvVHNZDZR3o2VE1qVQNS21xOHNS5bERlZINWkZSvMZW1EutSU9wTTJENDv+T1NCYkYlaciUYK2FwvRW9xa06ddlibMmzMSGqCe3FtOWtGZ3ZUeXMvQkA2RUZWmFJrzNzlZ2d2bDRWUzh6U5pdEENGWFReXNKZkE9PQQAAAA4Qcsc/URRZvDloWyg9dybVEQLWY8LkiAyPV5XXHidth+i1ZleplNEDkUXHSx2vVJlsNRFR4/kqPdlWnkO2D2TM8treiffiSiZyYGDTS+yW/5eAveEUP5j1i1BN72bwkL+lV4YAn07cm7NKWkJwEwikHAIU3vF8chZpKgICHE0kQgWPC9RE82pTwOs6/r4PLGNFqPOMuiE5nucFvtrjy89Qj0k/A173zyFbo7VTVNzXQZT77rzWBCP9kIjptXcWucWuk08Q5S+rSoJNYFo3HGTKrCVsRz/55CeNtdwKkXuIlwSeir4f1/1KLuqTQtFLy0+1th878VS8788UT1"

- match: { license_status: "valid" }

- do:
  xpack.license.get: {}

- length: { license: 11 }

## multiple licenses version: 1.x

- do:
  xpack.license.post:
    acknowledge: true
    body: |
      { "licenses": [ { "uid": "893361dc-9749-4997-93cb-802e3d7faa8", "type": "internal", "subscription_type": "none", "issue_date_in_millis": 1411948800000, "feature": "shield", "expiry_date_in_millis": 1440892799999, "max_nodes": 1, "issued_to": "issuer", "issuer": "signature", "A AAAAAAAQAAMA4Q4ky3rFyyWLFktyEAAAbmC9Z0NHjZDBGYNvYRxpCOW5Bf3JDZxOWpSBTVoMVZWmUrzVkJ1PSmkxaksZdW51M1hlTHNoN1N2M1MXvRFk4d3JTEZex3R3RZ0pzU3lobWJKZnQvSEFvaa0ppTHBkWkpwrZWZSQ9iNmRQknk1s1plNOldAlZCS095MXRGN111ZlpYeVTnTnrFCE2dzhJZmZrdFqN3JQeGwx0bU0MXZ0dDHSEr1zTVLH0nzSDByWnpoZEpHZHEBZjUrTVBxRENNSSXNsWYljZlolaDdezVnEzUJNiWktNWG51UThQV2plauo4Q1JOUm4MXXNuOpS0EHqVYB2azhmUk9QVzHeTfoM1JQ0RmJXSG53MWk2K055c28zSmRnVkfhl2JSQfKLFLV2XUMvVHNZDZR3o2VE1qVQNS21xOHNS5bERlZINWkZSvMZW1EutSU9wTTJENDv+T1NCYkYlaciUYK2FwvRW9xa06ddlibMmzMSGqCe3FtOWtGZ3ZUeXMvQkA2RUZWmFJrzNzlZ2d2bDRWUzh6U5pdEENGWFReXNKZkE9PQQAAAA4Qcsc/URRZvDloWyg9dybVEQLWY8LkiAyPV5XXHidth+i1ZleplNEDkUXHSx2vVJlsNRFR4/kqPdlWnkO2D2TM8treiffiSiZyYGDTS+yW/5eAveEUP5j1i1BN72bwkL+lV4YAn07cm7NKWkJwEwikHAIU3vF8chZpKgICHE0kQgWPC9RE82pTwOs6/r4PLGNFqPOMuiE5nucFvtrjy89Qj0k/A173zyFbo7VTVNzXQZT77rzWBCP9kIjptXcWucWuk08Q5S+rSoJNYFo3HGTKrCVsRz/55CeNtdwKkXuIlwSeir4f1/1KLuqTQtFLy0+1th878VS8788UT1" ] } }
Uzh6UG5pdENGWFRreXNKNK9E9PQAAAACQC94du0pDNZr3Uuyip0ic3aQI+nvVqe+U8u79Dga5n1qjJcHd7hHvIBJEKf+tvVPla/PXV/x7BZSwvY1PVRenR6rYx1yuHeqwxmmxVdRIJrCaZM6tk0Obd4ZCp6Ebn2Mnk89KHCP/wiLPq6QfwV/Pkpa8kX3A0RImvYSDvXhe6tCs8dq4ebrsFkqZjwWh5CZSpqqZBFXIngDv2N0hHpGlueRezdD0J5d0LELSa1ADDgq9OJOVje5SnyRqeIL5QRUNdXPV18+EA0G0D1cNdj/SmPVCfN/Vjw6i2q/YgM3cu7t5XVBY7ij4WnOP3ce7jZs9TWhHn+iQzftC6"]]]

- match: { license_status: "valid" }

- do:
  xpack.license.get: {}

- length: { license: 11 }
- match: { license.uid: "893361dc-9749-4997-93cb-802e3d0fh7aa" }

- Should throw 404 after license deletion:
  - do:
    xpack.license.delete: {}
     match: { acknowledged: true }
  - do:
    xpack.license.get: {}
    catch: missing

- Should install a feature type license:

  # VERSION_NO_FEATURE_TYPE license version
  - do:
    xpack.license.post:
      acknowledge: true
      body: |
      "license": {"uid":"893361dc-9749-4997-93cb-802e3d0fa48","type":"gold","issue_date_in_millis":1411948800000,"expiry_date_in_millis":1914278399999,"max_nodes":1,"issued_to":null,"issu er":null,"signature":null,"license":null,"acknowledged":true}

---

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- match: { license_status: "valid" }

- do:
  xpack.license.get: {}

- length: { license: 11 }
---
"Cannot start basic":

- do:
  catch: bad_request
  xpack.license.post:
    acknowledge: true
    body: |
      "license":"{"uid":"893361dc-9749-4997-93cb-802e3d7fa4a8","type":"basic","issue_date_in_millis":1411948800000,"expiry_date_in_millis":1914278399999,"max_nodes":1,"issued_to":"issuedTo","issuer":"issuer","signature":"AAAAAgAAAA0lKPZ0a7aZquUltho/AAABmA9ZN0hjZDBGYnVxrpCpOW5Bb3fjZDAxOWpSbTvoMVZwUrzXvKjPsmkxaxZdW5IMhITHNoN1N2MXMvRFK4d3J7ZEZx3R3RRZ0pzU3lobWJKZnqVSEFa0ppTHBkWkprZWZSQi9iNmRQkw1SlpLN0lDalZCS095MXRGN11lZlpYcVVTnFlreTE2zhhJZmZrdFQrN3JQeGwxb0U0MX0dDJHSErZTVLOHnzSDByWnpoZEpzhZHBEZjUrTVbXRENSXnSwWWJZiZlaODdzVmeUzIjNiWktxNWGM5TUvQV2PlauO4QlOUm4MXNu0lSOEtHoQBv2azhmUk9QVzhFefToMlQ0RnJXSG53MWk2055c28zSmRnVfkb2JSqkFLV2XUmsVHNDZ2RSo2VE1q
bVNHq52mOhN5bUerZINWkZSVMzIWEtus9wTTJENDVvT1NCYklacUYyk2FwRW9xa0t6ddMmMzSgIQc3FW0TgzeZSUcXMrQkz2RUZwFmJnZzluLz2d2bDRWUzh6UG5pdENGWRreXNKnkE9PQAAAQAALuQ44S3IFe7S6olcXvJ6ZCICXIORDrYQ+wdLCeey0XdujTslAOj+k+vNg06wauc7Uswi01esHu4lb1fgpKy7RRChh5b/yz2
ubu2qMjqqop9BYqidD7QYvFqnm6seUMJwJ1a5Avvm9r41YPSPeri3bK2e1l6jK6N8ibCvnTyY/XkYGCrBWT
SJePDh66rbrjM2Z37xu1SbIb2WcNAkmwYeHdjINvYneZrZ07A3NmubxzJw7Tdf8/YwQyE00PQmCl71vPY63hk
KpAeHf8aaJbqkKYbqZuER3EWJXZvLvb1NdNg8aXRn7YrkQeyWgpyTQpfV+D7ye14j5muAEoler"}

- match: { error.root_cause.0.reason: 'Installing basic licenses is no longer allowed. Use the POST /_xpack/license/start_basic API to install a basic license that does not expire.' }
---
"Should fail gracefully when body content is not provided":

- do:
  catch: bad_request
  xpack.license.post:
    acknowledge: true

- match: { error.root_cause.0.reason: 'The license must be provided in the request body' }

- do:
  xpack.license.get_trial_status: {}

- match: { eligible_to_start_trial: false }
- do:
  xpack.license.post_start_basic:
    acknowledge: true

- match: { basic_was_started: true }

- do:
  xpack.license.get_trial_status: {}

- match: { eligible_to_start_trial: false }
- do:
  catch: forbidden
  xpack.license.post_start_trial:
    acknowledge: true

- match: { trial_was_started: false }
- match: { error_message: "Operation failed: Trial was already activated." }
- do:
  "Trial license cannot be basic":
  - do:
    catch: bad_request
    xpack.license.post_start_trial:
      type: "basic"
      acknowledge: true
- do:
  "Can start basic license if do not already have basic":
  - do:
    xpack.license.get_basic_status: {}

- match: { eligible_to_start_basic: true }
- do:
  xpack.license.post_start_basic:
    acknowledge: true

- match: { basic_was_started: true }
- match: { acknowledged: true }

- do:
  xpack.license.get_basic_status: {}

- match: { eligible_to_start_basic: false }
- do:
  catch: forbidden
  xpack.license.post_start_basic: { }
- match: { basic_was_started: false }
- match: { acknowledged: true }
- match: { error_message: "Operation failed: Current license is basic." }

"Must acknowledge to start basic":
- do:
  xpack.license.post_start_basic: {}

- match: { basic_was_started: false }
- match: { acknowledged: false }
- match: { error_message: "Operation failed: Needs acknowledgement." }

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*/
package org.elasticsearch.license;

import org.elasticsearch.ElasticsearchSecurityException;
import org.elasticsearch.action.support.PlainActionFuture;
import org.elasticsearch.client.transport.TransportClient;
import org.elasticsearch.cluster.ClusterState;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.unit.TimeValue;
import org.elasticsearch.common.xcontent.XContentType;
import org.elasticsearch.license.License.OperationMode;
import org.elasticsearch.rest.RestStatus;
import org.elasticsearch.test.junit.annotations.TestLogging;
import org.elasticsearch.transport.Transport;
import org.elasticsearch.xpack.core.TestXPackTransportClient;
import org.elasticsearch.xpack.core.XPackField;
import org.elasticsearch.xpack.core.ml.action.CloseJobAction;
import org.elasticsearch.xpack.core.ml.action.DeleteDatafeedAction;
import org.elasticsearch.xpack.core.ml.action.DeleteJobAction;
import org.elasticsearch.xpack.core.ml.action.GetDatafeedsStatsAction;
import org.elasticsearch.xpack.core.ml.action.GetJobsStatsAction;
import org.elasticsearch.xpack.core.ml.action.OpenJobAction;
import org.elasticsearch.xpack.core.ml.action.PutDatafeedAction;
import org.elasticsearch.xpack.core.ml.action.PutJobAction;
import org.elasticsearch.xpack.core.ml.action.StartDatafeedAction;
import org.elasticsearch.xpack.core.ml.action.StopDatafeedAction;
import org.elasticsearch.xpack.core.ml.client.MachineLearningClient;
import org.elasticsearch.xpack.core.ml.datafeed.DatafeedState;
import org.elasticsearch.xpack.core.ml.job.config.JobState;
import org.elasticsearch.persistent.PersistentTasksCustomMetaData;
import org.elasticsearch.xpack.ml.LocalStateMachineLearning;
import org.elasticsearch.xpack.ml.support.BaseMlIntegTestCase;
import org.junit.Before;
import java.util.Collections;
import static org.hamcrest.Matchers.containsString;
import static org.hamcrest.Matchers.hasItem;
import static org.hamcrest.Matchers.is;

@TestLogging("org.elasticsearch.xpack.ml.action:DEBUG")
public class MachineLearningLicensingTests extends BaseMlIntegTestCase {

    @Before
    public void resetLicensing() {
        enableLicensing();

        ensureStableCluster(1);
        ensureYellow();
    }

    public void testMachineLearningPutJobActionRestricted() throws Exception {
        String jobId = "testmachinelearningputjobactionrestricted";
        // Pick a license that does not allow machine learning
        License.OperationMode mode = randomInvalidLicenseType();
        enableLicensing(mode);
        assertMLAllowed(false);
        // test that license restricted apis do not work
        Settings settings = internalCluster().transportClient().settings();
        try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
            PlainActionFuture<PutJobAction.Response> listener = PlainActionFuture.newFuture();
            new MachineLearningClient(client).putJob(new PutJobAction.Request(createJob(jobId)), listener);
            listener.actionGet();
            fail("put job action should not be enabled!");
        } catch (ElasticsearchSecurityException e) {
            assertThat(e.status(), is(RestStatus.FORBIDDEN));
            assertThat(e.getMessage(), containsString("non-compliant"));
            assertThat(e.getMetadata(LicenseUtils.EXPIRED_FEATURE_METADATA), hasItem(XPackField.MACHINE_LEARNING));
        }

        // Pick a license that does allow machine learning
        mode = randomValidLicenseType();
        enableLicensing(mode);
        assertMLAllowed(true);
        // test that license restricted apis do now work
        try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
            client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress());
        }
    }
}

// Pick a license that does allow machine learning
mode = randomValidLicenseType();
enableLicensing(mode);
assertMLAllowed(true);
// test that license restricted apis do now work
try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
    client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress());
}
PlainActionFuture<PutJobAction.Response> listener = PlainActionFuture.newFuture();
new MachineLearningClient(client).putJob(new PutJobAction.Request(createJob(jobId)), listener);
PutJobAction.Response response = listener.actionGet();
assertNotNull(response);
}
}

public void testMachineLearningOpenJobActionRestricted() throws Exception {
String jobId = "testmachinelearningopenjobactionrestricted";
assertMLAllowed(true);
// test that license restricted apis do now work
Settings settings = internalCluster().transportClient().settings();
try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) { 
client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress());
PlainActionFuture<PutJobAction.Response> putJobListener = PlainActionFuture.newFuture();
new MachineLearningClient(client).putJob(new PutJobAction.Request(createJob(jobId)), putJobListener);
PutJobAction.Response response = putJobListener.actionGet();
assertNotNull(response);
}

// Pick a license that does not allow machine learning
License.OperationMode mode = randomInvalidLicenseType();
enableLicensing(mode);
assertMLAllowed(false);
// test that license restricted apis do not work
try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress());
PlainActionFuture<OpenJobAction.Response> listener = PlainActionFuture.newFuture();
new MachineLearningClient(client).openJob(new OpenJobAction.Request(jobId), listener);
listener.actionGet();
fail("open job action should not be enabled!");
} catch (ElasticsearchSecurityException e) {
assertThat(e.status(), is(RestStatus.FORBIDDEN));
assertThat(e.getMessage(), containsString("non-compliant"));
assertThat(e.getMetadata(LicenseUtils.EXPIRED_FEATURE_METADATA), hasItem(XPackField.MACHINE_LEARNING));
}

// Pick a license that does allow machine learning
mode = randomValidLicenseType();
enableLicensing(mode);
assertMLAllowed(true);

// now that the license is invalid, the job should get closed:
assertBusy(() -> {
JobState jobState = getJobStats(jobId).getState();
});
assertEquals(JobState.CLOSED, jobState);
});

// test that license restricted apis do now work
try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
    client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress());
    PlainActionFuture<OpenJobAction.Response> listener = PlainActionFuture.newFuture();
    new MachineLearningClient(client).openJob(new OpenJobAction.Request(jobId), listener);
    OpenJobAction.Response response = listener.actionGet();
    assertNotNull(response);
}
}

public void testMachineLearningPutDatafeedActionRestricted() throws Exception {
    String jobId = "testmachinelearningputdatafeedactionrestricted";
    String datafeedId = jobId + "-datafeed";
    assertMLAllowed(true);
    // test that license restricted apis do now work
    Settings settings = internalCluster().transportClient().settings();
    try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
        client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress());
        PlainActionFuture<PutJobAction.Response> putJobListener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).putJob(new PutJobAction.Request(createJob(jobId)), putJobListener);
        PutJobAction.Response putJobResponse = putJobListener.actionGet();
        assertNotNull(putJobResponse);
    }
}

// Pick a license that does not allow machine learning
License.OperationMode mode = randomInvalidLicenseType();
enableLicensing(mode);
assertMLAllowed(false);
// test that license restricted apis do not work
try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
    client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress());
    PlainActionFuture<PutDatafeedAction.Response> listener = PlainActionFuture.newFuture();
    new MachineLearningClient(client).putDatafeed(
        new PutDatafeedAction.Request(createDatafeed(datafeedId, jobId, Collections.singletonList(jobId))),
        listener);
    listener.actionGet();
    fail("put datafeed action should not be enabled!");
} catch (ElasticsearchSecurityException e) {
    assertThat(e.status(), is(RestStatus.FORBIDDEN));
    assertThat(e.getMessage(), containsString("non-compliant"));
    assertThat(e.getMetadata(LicenseUtils.EXPIRED_FEATURE_METADATA), hasItem(XPackField.MACHINE_LEARNING));
}
// Pick a license that does allow machine learning
mode = randomValidLicenseType();
enableLicensing(mode);
assertMLAllowed(true);
// test that license restricted apis do now work
try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
    PlainActionFuture<PutDatafeedAction.Response> listener = PlainActionFuture.newFuture();
    new MachineLearningClient(client).putDatafeed(
        new PutDatafeedAction.Request(createDatafeed(datafeedId, jobId, Collections.singletonList(jobId))),
        listener);
    PutDatafeedAction.Response response = listener.actionGet();
    assertNot Null(response);
}

public void testAutoCloseJobWithDatafeed() throws Exception {
    String jobId = "testautoclosejobwithdatafeed";
    String datafeedId = jobId + "-datafeed";
    assertMLAllowed(true);
    String datafeedIndex = jobId + "-data";
    prepareCreate(datafeedIndex).addMapping("type", "{type: {properties: {time: {type: "date"}}}}",
        XContentType.JSON).get();
    Settings settings = internalCluster().transportClient().settings();
    try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
        PlainActionFuture<PutJobAction.Response> putJobListener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).putJob(new PutJobAction.Request(createJob(jobId)), putJobListener);
        PutJobAction.Response putJobResponse = putJobListener.actionGet();
        assertNot Null(putJobResponse);
        // put datafeed
        PlainActionFuture<PutDatafeedAction.Response> putDatafeedListener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).putDatafeed(
            new PutDatafeedAction.Request(createDatafeed(datafeedId, jobId, Collections.singletonList(datafeedIndex))),
            putDatafeedListener);
        PutDatafeedAction.Response putDatafeedResponse = putDatafeedListener.actionGet();
        assertNot Null(putDatafeedResponse);
        // open job
        PlainActionFuture<OpenJobAction.Response> openJobListener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).openJob(new OpenJobAction.Request(jobId), openJobListener);
        OpenJobAction.Response openJobResponse = openJobListener.actionGet();
        assertNot Null(openJobResponse);
        // start datafeed
PlainActionFuture<StartDatafeedAction.Response> listener = PlainActionFuture.newFuture();
new MachineLearningClient(client).startDatafeed(new StartDatafeedAction.Request(datafeedId, 0L),
listener);
listener.actionGet();
}

if (randomBoolean()) {
    enableLicensing(randomInvalidLicenseType());
} else {
    disableLicensing();
}
assertMLAllowed(false);

// now that the license is invalid, the job should be closed and datafeed stopped:
assertBusy(() -> {
    JobState jobState = getJobStats(jobId).getState();
    assertEquals(JobState.CLOSED, jobState);

    DatafeedState datafeedState = getDatafeedStats(datafeedId).getDatafeedState();
    assertEquals(DatafeedState.STOPPED, datafeedState);

    ClusterState state = client().admin().cluster().prepareState().get().getState();
    PersistentTasksCustomMetaData tasks = state.metaData().custom(PersistentTasksCustomMetaData.TYPE);
    assertEquals(0, tasks.taskMap().size());
});

enableLicensing(randomValidLicenseType());
assertMLAllowed(true);

try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
    client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress());
    // open job
    PlainActionFuture<OpenJobAction.Response> openJobListener = PlainActionFuture.newFuture();
    new MachineLearningClient(client).openJob(new OpenJobAction.Request(jobId), openJobListener);
    OpenJobAction.Response openJobResponse = openJobListener.actionGet();
    assertNotNull(openJobResponse);

    // start datafeed
    PlainActionFuture<StartDatafeedAction.Response> listener = PlainActionFuture.newFuture();
    new MachineLearningClient(client).startDatafeed(new StartDatafeedAction.Request(datafeedId, 0L),
listener);
    listener.actionGet();
}

assertBusy(() -> {
    JobState jobState = getJobStats(jobId).getState();
    assertEquals(JobState.OPENED, jobState);
}) ;
DatafeedState datafeedState = getDatafeedStats(datafeedId).getDatafeedState();
assertEquals(DatafeedState.STARTED, datafeedState);

ClusterState state = client().admin().cluster().prepareState().get().getState();
PersistentTasksCustomMetaData tasks = state.metaData().custom(PersistentTasksCustomMetaData.TYPE);
assertEquals(2, tasks.taskMap().size());
}

if (randomBoolean()) {
    enableLicensing(randomInvalidLicenseType());
} else {
    disableLicensing();
}
assertMLAllowed(false);

// now that the license is invalid, the job should be closed and datafeed stopped:
assertBusy(() -> {
    JobState jobState = getJobStats(jobId).get();
    assertEquals(JobState.CLOSED, jobState);
    DatafeedState datafeedState = getDatafeedStats(datafeedId).getDatafeedState();
    assertEquals(DatafeedState.STOPPED, datafeedState);
    ClusterState state = client().admin().cluster().prepareState().get().getState();
    PersistentTasksCustomMetaData tasks = state.metaData().custom(PersistentTasksCustomMetaData.TYPE);
    assertEquals(0, tasks.taskMap().size());
});

public void testMachineLearningStartDatafeedActionRestricted() throws Exception {
    String jobId = "testmachinelearningstartdatafeedactionrestricted";
    String datafeedId = jobId + ":datafeed";
    assertMLAllowed(true);
    String datafeedIndex = jobId + ":data";
    prepareCreate(datafeedIndex).addMapping("type", 
      "{"type":"{\"properties\":{\"time\":{\"type\":\"date\"}}}"}
    , XContentType.JSON).get();
    // test that license restricted apis do now work
    Settings settings = internalCluster().transportClient().settings();
    try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
        client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress());
        PlainActionFuture<PutJobAction.Response> putJobListener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).putJob(new PutJobAction.Request(createJob(jobId)), putJobListener);
        PutJobAction.Response putJobResponse = putJobListener.actionGet();
        PlainActionFuture<PutDatafeedAction.Response> putDatafeedListener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).putDatafeed("testmachinelearningstartdatafeedactionrestricted", datafeedId, job,
        new PutDatafeedAction.Request(createDatafeed(datafeedId, jobId,

Collections.singletonList(datafeedIndex))), putDatafeedListener);
PutDatafeedAction.Response putDatafeedResponse = putDatafeedListener.actionGet();
assertNotNull(putDatafeedResponse);
PlainActionFuture<OpenJobAction.Response> openJobListener = PlainActionFuture.newFuture();
new MachineLearningClient(client).openJob(new OpenJobAction.Request(jobId), openJobListener);
OpenJobAction.Response openJobResponse = openJobListener.actionGet();
assertNotNull(openJobResponse);

} // Pick a license that does not allow machine learning
License.OperationMode mode = randomInvalidLicenseType();
enableLicensing(mode);
assertMLAllowed(false);

// now that the license is invalid, the job should get closed:
assertBusy(() -> {
    JobState jobState = getJobStats(jobId).getState();
    assertEquals(JobState.CLOSED, jobState);
    ClusterState state = client().admin().cluster().prepareState().get().getState();
    PersistentTasksCustomMetaData tasks = state.metaData().custom(PersistentTasksCustomMetaData.TYPE);
    assertEquals(0, tasks.taskMap().size());
});

// test that license restricted apis do not work
try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
    client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress());
    PlainActionFuture<StartDatafeedAction.Response> listener = PlainActionFuture.newFuture();
    new MachineLearningClient(client).startDatafeed(new StartDatafeedAction.Request(datafeedId, 0L),
    listener);
    listener.actionGet();
    fail("start datafeed action should not be enabled!");
} catch (ElasticsearchSecurityException e) {
    assertThat(e.status(), is(RestStatus.FORBIDDEN));
    assertThat(e.getMessage(), containsString("non-compliant"));
    assertThat(e.getMetadata(LicenseUtils.EXPIRED_FEATURE_METADATA),
    hasItem(XPackField.MACHINE_LEARNING));
}

// Pick a license that does allow machine learning
mode = randomValidLicenseType();
enableLicensing(mode);
assertMLAllowed(true);
// test that license restricted apis do now work
try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
    client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress());
    // re-open job now that the license is valid again
PlainActionFuture<OpenJobAction.Response> openJobListener = PlainActionFuture.newFuture();
new MachineLearningClient(client).openJob(new OpenJobAction.Request(jobId), openJobListener);
OpenJobAction.Response openJobResponse = openJobListener.actionGet();
assertNotNull(openJobResponse);

PlainActionFuture<StartDatafeedAction.Response> listener = PlainActionFuture.newFuture();
new MachineLearningClient(client).startDatafeed(new StartDatafeedAction.Request(datafeedId, 0L),
listener);
StartDatafeedAction.Response response = listener.actionGet();
assertNotNull(response);
}
}

class PutJobResponse { }

class PutDatafeedAction { }

class PutDatafeedAction.Response { }

class StartDatafeedAction { }

class StartDatafeedAction.Response { }

public void testMachineLearningStopDatafeedActionNotRestricted() throws Exception {
    String jobId = "testmachinelearningstopdatafeedactionnotrestricted";
    String datafeedId = jobId + "-datafeed";
    assertMLAllowed(true);
    String datafeedIndex = jobId + "-data";
    prepareCreate(datafeedIndex).addMapping("type", "{\"type\":{\"properties\":{\"time\":{\"type\":\"date\"}}}}\", XContentType.JSON).get();
    // test that license restricted apis do now work
    Settings settings = internalCluster().transportClient().settings();
    try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
        client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress());
        PlainActionFuture<PutJobAction.Response> putJobListener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).putJob(new PutJobAction.Request(createJob(jobId)), putJobListener);
        PutJobAction.Response putJobResponse = putJobListener.actionGet();
        assertNotNull(putJobResponse);
        PlainActionFuture<PutDatafeedAction.Response> putDatafeedListener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).putDatafeed(
            new PutDatafeedAction.Request(createDatafeed(datafeedId, jobId,
                Collections.singletonList(datafeedIndex)))).get();
        PutDatafeedAction.Response putDatafeedResponse = putDatafeedListener.actionGet();
        assertNotNull(putDatafeedResponse);
        PlainActionFuture<OpenJobAction.Response> openJobListener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).openJob(new OpenJobAction.Request(jobId), openJobListener);
        OpenJobAction.Response openJobResponse = openJobListener.actionGet();
        assertNotNull(openJobResponse);
        PlainActionFuture<StartDatafeedAction.Response> startDatafeedListener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).startDatafeed(
            new StartDatafeedAction.Request(datafeedId, 0L)).get();
        StartDatafeedAction.Response startDatafeedResponse = startDatafeedListener.actionGet();
        assertNotNull(startDatafeedResponse);
    }

    boolean invalidLicense = randomBoolean();
    if (invalidLicense) {
enableLicensing(randomInvalidLicenseType());
} else {
    enableLicensing(randomValidLicenseType());
}

try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
    PlainActionFuture<StopDatafeedAction.Response> listener = PlainActionFuture.newFuture();
    new MachineLearningClient(client).stopDatafeed(new StopDatafeedAction.Request(datafeedId), listener);
    if (invalidLicense) {
        // the stop datafeed due to invalid license happens async, so check if the datafeed turns into stopped state:
        assertBusy(() -> {
            GetDatafeedsStatsAction.Response response =
                new MachineLearningClient(client)
                    .getDatafeedsStats(new GetDatafeedsStatsAction.Request(datafeedId)).actionGet();
            assertEquals(DatafeedState.STOPPED, response.getResponse().results().get(0).getDatafeedState());
        });
    } else {
        listener.actionGet();
    }
}

if (invalidLicense) {
    // the close due to invalid license happens async, so check if the job turns into closed state:
    assertBusy(() -> {
        GetJobsStatsAction.Response response =
            new MachineLearningClient(client).getJobsStats(new GetJobsStatsAction.Request(jobId)).actionGet();
        assertEquals(JobState.CLOSED, response.getResponse().results().get(0).getState());
    });
}

public void testMachineLearningCloseJobActionNotRestricted() throws Exception {
    String jobId = "testmachinelearningclosejobactionnotrestricted";
    assertMLAllowed(true);
    // test that license restricted apis do now work
    Settings settings = internalCluster().transportClient().settings();
    try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
        PlainActionFuture<PutJobAction.Response> putJobListener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).putJob(new PutJobAction.Request(createJob(jobId)), putJobListener);
        PutJobAction.Response putJobResponse = putJobListener.actionGet();
        assertNotNull(putJobResponse);
        PlainActionFuture<OpenJobAction.Response> openJobListener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).openJob(new OpenJobAction.Request(jobId), openJobListener);
        OpenJobAction.Response openJobResponse = openJobListener.actionGet();
    }
}
OpenSourceUsedInApplicationCentricInfrastructureServiceEngine(ACI-SE)1.1

OpenJobAction.Response openJobResponse = openJobListener.actionGet();
assertNotNull(openJobResponse);
}

boolean invalidLicense = randomBoolean();
if (invalidLicense) {
    enableLicensing(randomInvalidLicenseType());
} else {
    enableLicensing(randomValidLicenseType());
}

try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
    PlainActionFuture<CloseJobAction.Response> listener = PlainActionFuture.newFuture();
    CloseJobAction.Request request = new CloseJobAction.Request(jobId);
    request.setCloseTimeout(TimeValue.timeValueSeconds(20));
    if (invalidLicense) {
        // the close due to invalid license happens async, so check if the job turns into closed state:
        assertBusy(() -> {
            GetJobsStatsAction.Response response =
                new MachineLearningClient(client).getJobsStats(new
                    GetJobsStatsAction.Request(jobId)).actionGet();
            assertEquals(JobState.CLOSED, response.getResponse().results().get(0).getState());
        });
    } else {
        new MachineLearningClient(client).closeJob(request, listener);
        listener.actionGet();
    }
}

public void testMachineLearningDeleteJobActionNotRestricted() throws Exception {
    String jobId = "testmachinelearningclosejobactionnotrestricted";
    assertMLAllowed(true);
    // test that license restricted apis do now work
    Settings settings = internalCluster().transportClient().settings();
    try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
        PlainActionFuture<PutJobAction.Response> putJobListener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).putJob(new PutJobAction.Request(createJob(jobId)), putJobListener);
        PutJobAction.Response putJobResponse = putJobListener.actionGet();
        assertNotNull(putJobResponse);
    }

    // Pick a random license
    License.OperationMode mode = randomLicenseType();
enableLicensing(mode);

try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
    client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress());
    PlainActionFuture<DeleteJobAction.Response> listener = PlainActionFuture.newFuture();
    new MachineLearningClient(client).deleteJob(new DeleteJobAction.Request(jobId), listener);
    listener.actionGet();
}

public void testMachineLearningDeleteDatafeedActionNotRestricted() throws Exception {
    String jobId = "testmachinelearningdeletedatafeedactionnotrestricted";
    String datafeedId = jobId + "-datafeed";
    assertMLAllowed(true);
    // test that license restricted apis do now work
    Settings settings = internalCluster().transportClient().settings();
    try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
        client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress());
        PlainActionFuture<PutJobAction.Response> putJobListener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).putJob(new PutJobAction.Request(createJob(jobId)), putJobListener);
        PutJobAction.Response putJobResponse = putJobListener.actionGet();
        assertNotNull(putJobResponse);
        PlainActionFuture<PutDatafeedAction.Response> putDatafeedListener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).putDatafeed(
            new PutDatafeedAction.Request(createDatafeed(datafeedId, jobId, Collections.singletonList(jobId))), putDatafeedListener);
        PutDatafeedAction.Response putDatafeedResponse = putDatafeedListener.actionGet();
        assertNotNull(putDatafeedResponse);
    }

    // Pick a random license
    License.OperationMode mode = randomLicenseType();
    enableLicensing(mode);

    try (TransportClient client = new TestXPackTransportClient(settings, LocalStateMachineLearning.class)) {
        client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress());
        PlainActionFuture<DeleteDatafeedAction.Response> listener = PlainActionFuture.newFuture();
        new MachineLearningClient(client).deleteDatafeed(new DeleteDatafeedAction.Request(datafeedId), listener);
        listener.actionGet();
    }
}

private static OperationMode randomInvalidLicenseType() {
    return randomFrom(License.OperationMode.GOLD, License.OperationMode.STANDARD,
private static OperationMode randomValidLicenseType() {
    return randomFrom(License.OperationMode.TRIAL, License.OperationMode.PLATINUM);
}

private static OperationMode randomLicenseType() {
    return randomFrom(License.OperationMode.values());
}

private static void assertMLAllowed(boolean expected) {
    for (XPackLicenseState licenseState : internalCluster().getInstances(XPackLicenseState.class)) {
        assertEquals(licenseState.isMachineLearningAllowed(), expected);
    }
}

public static void disableLicensing() {
    disableLicensing(randomValidLicenseType());
}

public static void disableLicensing(License.OperationMode operationMode) {
    for (XPackLicenseState licenseState : internalCluster().getInstances(XPackLicenseState.class)) {
        licenseState.update(operationMode, false);
    }
}

public static void enableLicensing() {
    enableLicensing(randomValidLicenseType());
}

public static void enableLicensing(License.OperationMode operationMode) {
    for (XPackLicenseState licenseState : internalCluster().getInstances(XPackLicenseState.class)) {
        licenseState.update(operationMode, true);
    }
}

/*
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 *
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*/


{
  "metadata": {
    "name": "X-Pack Monitoring: License Expiration",
    "xpack": {
      "link": "license",
      "expires_days": [ 60, 30, 14, 7 ],
      "severity": 0,
      "alert_index": ".monitoring-alerts-6",
      "cluster_uuid": "${monitoring.watch.cluster_uuid}"
    },
    "type": "monitoring",
    "version_created": 7000001,
    "watch": "${monitoring.watch.id}"
  },
  "trigger": {
    "schedule": {
      "interval": "1m"
    }
  },
  "input": {
    "chain": {
      "inputs": [
        {
          "check": {
            "search": {
              "request": {
                "indices": [".monitoring-es-*"]
              },
              "body": {
                "size": 1,
                "sort": [
                  {"timestamp": {"order": "desc"}}
                ]
              },
              "_source": ["license.*"]
            },
            "query": {
              "bool": {
                "filter": [
                  {"term": {
                    "cluster_uuid": "{{ctx.metadata.xpack.cluster_uuid}}"}}
                ]
              }
            }
          }
        }
      ]
    }
  }
}
{"term": { "type": "cluster_stats" }},
{"range": { "timestamp": { "gte": "now-2m" } },
"alert": { "search": { "request": { "indices": [ ".monitoring-alerts-6" ], "body": { "size": 1, "terminate_after": 1, "query": { "bool": { "filter": { "term": { ":_id": "{ctx.watch_id}" } } } }, "sort": [ { "timestamp": { "order": "desc" } } ] } } },
{  "kibana_settings": {  "search": {  "request": {  "indices": [  ".monitoring-kibana-6-*"  ],  "body": {  "size": 1,  "query": {  "bool": {  "filter": {  "term": {  "type": "kibana_settings"  }  }  }  }  }  },  "sort": [  {  "timestamp": {  "order": "desc"  }  }  ]  },  "condition": {  "script": "if (ctx.payload.check.hits.total == 0) {return false;}def license = ctx.payload.check.hits.hits[0]._source.license; if (license == null) {return false;}ctx.vars.fails_check = false;Instant expiry = Instant.ofEpochMilli(license.expiry_date_in_millis);ctx.vars.expiry = expiry; if (license.status != 'active') {ctx.vars.expired = true;ctx.vars.fails_check = true;ctx.metadata.xpack.severity = 2001;} else {Instant now = Instant.now();for (int i = ctx.metadata.xpack.expires_days.length - 1;i > -1;--i) {if (ctx.payload.alert.hits.total == 1 && ctx.payload.alert.alerts[0]._source.resolved_timestamp == null) {ctx.vars.update = ctx.vars.fails_check || ctx.vars.not_resolved;}
}
},  "transform": {  
}  }  }
"script": {  
  "source": "ctx.vars.email_recipient = (ctx.payload.kibana_settings.hits.total > 0) ? ctx.payload.kibana_settings.hits.hits[0].source.kibana_settings.xpack.default_admin_email : null;

  ctx.vars.is_new = ctx.vars.fails_check & & !ctx.vars.not_resolved;

  ctx.vars.is_resolved = !ctx.vars.fails_check & &

  ctx.vars.not_resolved;

  def alertMessage = null;

  if (ctx.vars.fails_check) { alertMessage = 'Update your license.'; } if (ctx.vars.not_resolved) { ctx.payload = ctx.payload.alert.hits.hits[0].source; ctx.payload.metadata =

  ctx.metadata.xpack; } if (ctx.vars.fails_check == false) { ctx.payload.resolved_timestamp = ctx.execution_time; } else { ctx.payload = { 'timestamp': ctx.execution_time, 'prefix': 'This cluster\'s license is going to expire in

  {{#relativeTime}}metadata.time{{/relativeTime}} at {{#absoluteTime}}metadata.time{{/absoluteTime}}.

  message': alertMessage, 'metadata': ctx.metadata.xpack; } if (ctx.vars.fails_check) { ctx.payload = ctx.payload.alert.hits.hits[0].source; ctx.payload.metadata =

  ctx.metadata.xpack; } if (ctx.vars.fails_check == false) { ctx.payload.resolved_timestamp = ctx.execution_time; return ctx.payload; }

  },

  "actions": {

    "add_to_alerts_index": {

      "index": {

        "index": ".monitoring-alerts-6",

        "doc_type": "doc",

        "doc_id": "${monitoring.watch.unique_id}"}

      },

    "send_email_to_admin": {

      "condition": {

        "script": "return ctx.vars.email_recipient != null & & (ctx.vars.is_new || ctx.vars.is_resolved)"

      },

      "email": {

        "to": "X-Pack Admin <{ctx.vars.email_recipient}>",

        "from": "X-Pack Admin <{ctx.vars.email_recipient}>",

        "subject": 

        "{{#ctx.vars.is_new}}NEW{{/ctx.vars.is_new}}{{#ctx.vars.is_resolved}}RESOLVED{{/ctx.vars.is_resolved}}

        {ctx.metadata.name}}",

        "body": {

          "text": "{{#ctx.vars.is_resolved}}This cluster alert has been resolved: {{/ctx.vars.is_resolved}} This cluster\'s license {{#ctx.vars.is_new}}is going to expire on

          {{ctx.payload.metadata.time}}{{/ctx.vars.is_new}}{{#ctx.vars.is_resolved}} was going to expire

          {{ctx.payload.metadata.time}}{{/ctx.vars.is_resolved}}. {{#ctx.vars.is_new}}{{ctx.payload.message}}{{/ctx.vars.is_new}}"

          }}

      }

    }

  }

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  */

package org.elasticsearch.
import org.apache.http.message.BasicHeader;
import org.elasticsearch.ElasticsearchSecurityException;
import org.elasticsearch.action.DocWriteResponse;
import org.elasticsearch.action.admin.cluster.health.ClusterHealthResponse;
import org.elasticsearch.action.admin.cluster.node.stats.NodesStatsResponse;
import org.elasticsearch.action.admin.cluster.stats.ClusterStatsIndices;
import org.elasticsearch.action.admin.cluster.stats.ClusterStatsResponse;
import org.elasticsearch.action.admin.indices.stats.IndicesStatsResponse;
import org.elasticsearch.action.index.IndexResponse;
import org.elasticsearch.client.Client;
import org.elasticsearch.client.Response;
import org.elasticsearch.client.ResponseException;
import org.elasticsearch.client.transport.NoNodeAvailableException;
import org.elasticsearch.client.transport.TransportClient;
import org.elasticsearch.cluster.routing.ShardRoutingState;
import org.elasticsearch.common.settings.SecureString;
import org.elasticsearch.common.settings.Settings;
import org.elasticsearch.common.util.concurrent.ThreadContext;
import org.elasticsearch.discovery.DiscoveryModule;
import org.elasticsearch.node.MockNode;
import org.elasticsearch.node.Node;
import org.elasticsearch.plugins.Plugin;
import org.elasticsearch.rest.RestStatus;
import org.elasticsearch.test.MockHttpTransport;
import org.elasticsearch.test.SecurityIntegTestCase;
import org.elasticsearch.test.SecuritySettingsSource;
import org.elasticsearch.test.SecuritySettingsSourceField;
import org.elasticsearch.test.discovery.TestZenDiscovery;
import org.elasticsearch.test.junit.annotations.TestLogging;
import org.elasticsearch.transport.Netty4Plugin;
import org.elasticsearch.transport.Transport;
import org.elasticsearch.xpack.core.TestXPackTransportClient;
import org.elasticsearch.xpack.core.XPackField;
import org.elasticsearch.xpack.core.security.SecurityField;
import org.elasticsearch.xpack.core.security.action.user.GetUsersResponse;
import org.elasticsearch.xpack.core.security.authc.support.UsernamePasswordToken;
import org.elasticsearch.xpack.core.security.client.SecurityClient;
import org.elasticsearch.xpack.security.LocalStateSecurity;
import org.junit.After;
import org.junit.Before;
import java.nio.file.Files;
import java.nio.file.Path;
import java.util.ArrayList;
import java.util.Arrays;
import java.util.Collection;
import static org.elasticsearch.common.xcontent.XContentFactory.jsonBuilder;
import static org.elasticsearch.test.hamcrest.ElasticsearchAssertions.assertNoFailures;
import static org.elasticsearch.test.hamcrest.ElasticsearchAssertions.assertNoFailures;
import static org.elasticsearch.test.hamcrest.ElasticsearchAssertions.assertNoFailures;
import static org.elasticsearch.test.hamcrest.ElasticsearchAssertions.assertNoFailures;
import static org.elasticsearch.test.hamcrest.ElasticsearchAssertions.assertNoFailures;
import static org.elasticsearch.test.hamcrest.ElasticsearchAssertions.assertNoFailures;
import static org.elasticsearch.test.hamcrest.ElasticsearchAssertions.assertNoFailures;
import static org.elasticsearch.test.hamcrest.ElasticsearchAssertions.assertNoFailures;
import static org.hamcrest.Matchers.containsString;
import static org.hamcrest.Matchers.greaterThanOrEqualTo;
import static org.hamcrest.Matchers.hasItem;
import static org.hamcrest.Matchers.is;
import static org.hamcrest.Matchers.notNullValue;
import static org.elasticsearch.action.search:TRACE," +
"org.elasticsearch.search:TRACE")

public class LicensingTests extends SecurityIntegTestCase {

    public static final String ROLES =
    SecuritySettingsSource.TEST_ROLE + ":\u000a +
    " cluster: [ all ]\n" +
    " indices:\n" +
    " - names: "*\n" +
    " privileges: [manage]\n" +
    " - names: /.*\n" +
    " privileges: [write]\n" +
    " - names: 'test'\n" +
    " privileges: [read]\n" +
    " - names: 'test1'\n" +
    " privileges: [read]\n" +
    "\n" +
    "role_a:\n" +
    " indices:\n" +
    " - names: 'a'\n" +
    " privileges: [all]\n" +
    "\n" +
    "role_b:\n" +
    " indices:\n" +
    " - names: 'b'\n" +
    " privileges: [all]\n";

    public static final String USERS =
    SecuritySettingsSource.CONFIG_STANDARD_USER +
    "user_a: {plain}passwd\n" +
    "user_b: {plain}passwd\n";

    public static final String USERS_ROLES =
    SecuritySettingsSource.CONFIG_STANDARD_USER_ROLES +
    "role_a:user_a,user_b\n" +
    "role_b:user_b\n";

    @Override
    protected String configRoles() {
        return ROLES;
    }
}
@Override
protected String configUsers() {
    return USERS;
}

@Override
protected String configUsersRoles() {
    return USERS_ROLES;
}

@Override
protected boolean addMockHttpTransport() {
    return false; // enable http
}

@Override
protected Collection<Class<? extends Plugin>> nodePlugins() {
    ArrayList<Class<? extends Plugin>> plugins = new ArrayList<>(super.nodePlugins());
    plugins.add(Netty4Plugin.class); // for http
    return plugins;
}

@Override
protected int maxNumberOfNodes() {
    return super.maxNumberOfNodes() + 1;
}

@Override
public Settings nodeSettings(int nodeOrdinal) {
    return Settings.builder().put(super.nodeSettings(nodeOrdinal))
            .put(TestZenDiscovery.USE_MOCK_PINGS.getKey(), false)
            .build();
}

@Before
public void resetLicensing() {
    enableLicensing();
}

@After
public void cleanupSecurityIndex() {
    deleteSecurityIndex();
}

public void testEnableDisableBehaviour() throws Exception {
    IndexResponse indexResponse = index("test", "type", jsonBuilder()
.startObject()
    .field("name", "value")
    .endObject());
assertEquals(DocWriteResponse.Result.CREATED, indexResponse.getResult());

indexResponse = index("test1", "type", jsonBuilder()
    .startObject()
    .field("name", "value1")
    .endObject());
assertEquals(DocWriteResponse.Result.CREATED, indexResponse.getResult());

refresh();
// wait for all replicas to be started (to make sure that there are no more cluster state updates when we disable
// licensing)
assertBusy(() -> assertTrue(client().admin().cluster().prepareState().get().getState().routingTable()
    .shardsWithState(ShardRoutingState.INITIALIZING).isEmpty()));

Client client = internalCluster().transportClient();
disableLicensing();

assertElasticsearchSecurityException(() -> client.admin().indices().prepareStats().get());
assertElasticsearchSecurityException(() -> client.admin().cluster().prepareClusterStats().get());
assertElasticsearchSecurityException(() -> client.admin().cluster().prepareHealth().get());
assertElasticsearchSecurityException(() -> client.admin().cluster().prepareNodesStats().get());

enableLicensing(randomFrom(License.OperationMode.values()));

IndicesStatsResponse indicesStatsResponse = client.admin().indices().prepareStats().get();
assertNoFailures(indicesStatsResponse);

ClusterStatsResponse clusterStatsResponse = client.admin().cluster().prepareClusterStats().get();
assertThat(clusterStatsResponse, notNullValue());
ClusterStatsIndices indices = clusterStatsResponse.getIndicesStats();
assertThat(indices, notNullValue());
assertThat(indices.getIndexCount(), greaterThanOrEqualTo(2));

ClusterHealthResponse clusterIndexHealth = client.admin().cluster().prepareHealth().get();
assertThat(clusterIndexHealth, notNullValue());

NodesStatsResponse nodeStats = client.admin().cluster().prepareNodesStats().get();
assertThat(nodeStats, notNullValue());
}

public void testRestAuthenticationByLicenseType() throws Exception {
    Response response = getRestClient().performRequest("GET", "/");
    // the default of the licensing tests is basic
assertThat(response.getStatusLine().getStatusCode(), is(200));
ResponseException e = expectThrows(ResponseException.class,
() -> getRestClient().performRequest("GET", "/_xpack/security/_authenticate");
assertThat(e.getResponse().getStatusLine().getStatusCode(), is(403));

// generate a new license with a mode that enables auth
License.OperationMode mode = randomFrom(License.OperationMode.GOLD,
License.OperationMode.TRIAL,
License.OperationMode.PLATINUM, License.OperationMode.STANDARD);
enableLicensing(mode);
e = expectThrows(ResponseException.class, () -> getRestClient().performRequest("GET", "/");
assertThat(e.getResponse().getStatusLine().getStatusCode(), is(401));
e = expectThrows(ResponseException.class,
() -> getRestClient().performRequest("GET", "/_xpack/security/_authenticate");
assertThat(e.getResponse().getStatusLine().getStatusCode(), is(401));

final String basicAuthValue =
UsernamePasswordToken.basicAuthHeaderValue(SecuritySettingsSource.TEST_USER_NAME,
new SecureString(SecuritySettingsSourceField.TEST_PASSWORD.toCharArray()));
response = getRestClient().performRequest("GET", "/", new BasicHeader("Authorization", basicAuthValue));
assertThat(response.getStatusLine().getStatusCode(), is(200));
response = getRestClient().performRequest("GET", "/_xpack/security/_authenticate",
new BasicHeader("Authorization", basicAuthValue));
assertThat(response.getStatusLine().getStatusCode(), is(200));

public void testSecurityActionsByLicenseType() throws Exception {
// security actions should not work!
Settings settings = internalCluster().transportClient().settings();
try (TransportClient client = new TestXPackTransportClient(settings, LocalStateSecurity.class)) {
client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress());

new SecurityClient(client).prepareGetUsers().get();
fail("security actions should not be enabled!");
} catch (ElasticsearchSecurityException e) {
assertThat(e.status(), is(RestStatus.FORBIDDEN));
assertThat(e.getMessage(), containsString("non-compliant"));
}

// enable a license that enables security
License.OperationMode mode = randomFrom(License.OperationMode.GOLD,
License.OperationMode.TRIAL,
License.OperationMode.PLATINUM, License.OperationMode.STANDARD);
enableLicensing(mode);
// security actions should not work!
try (TransportClient client = new TestXPackTransportClient(settings, LocalStateSecurity.class)) {
client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress());

new SecurityClient(client).prepareGetUsers().get();
fail("security actions should not be enabled!");
} catch (ElasticsearchSecurityException e) {
assertThat(e.status(), is(RestStatus.FORBIDDEN));
assertThat(e.getMessage(), containsString("non-compliant"));
}
public void testTransportClientAuthenticationByLicenseType() throws Exception {
    Settings.Builder builder = Settings.builder()
        .put(internalCluster().transportClient().settings());
    // remove user info
    builder.remove(SecurityField.USER_SETTING.getKey());
    builder.remove(ThreadContext.PREFIX + "." + UsernamePasswordToken.BASIC_AUTH_HEADER);
    // basic has no auth
    try (TransportClient client = new TestXPackTransportClient(builder.build(), LocalStateSecurity.class)) {
        client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress());
        assertGreenClusterState(client);
    }
    // enable a license that enables security
    License.OperationMode mode = randomFrom(License.OperationMode.GOLD,
        License.OperationMode.TRIAL,
        License.OperationMode.PLATINUM, License.OperationMode.STANDARD);
    enableLicensing(mode);
    try (TransportClient client = new TestXPackTransportClient(builder.build(), LocalStateSecurity.class)) {
        client.addTransportAddress(internalCluster().getDataNodeInstance(Transport.class).boundAddress().publishAddress());
        client.admin().cluster().prepareHealth().get();
        fail("should not have been able to connect to a node!");
    } catch (NoNodeAvailableException e) {
        // expected
    }
}

public void testNodeJoinWithoutSecurityExplicitlyEnabled() throws Exception {
    License.OperationMode mode = randomFrom(License.OperationMode.GOLD,
        License.OperationMode.PLATINUM, License.OperationMode.STANDARD);
    enableLicensing(mode);
    ensureGreen();
    Path home = createTempDir();
    Path conf = home.resolve("config");
    Files.createDirectories(conf);
    Settings nodeSettings = Settings.builder()
        .put(nodeSettings(maxNumberOfNodes() - 1).filter(s -> "xpack.security.enabled".equals(s) == false))
        .put("node.name", "my-test-node")
        .put("node.settings.maxNumberOfNodes", 1);
    GetUsersResponse response = new SecurityClient(client).prepareGetUsers().get();
    assertNotNull(response);
}
.put("network.host", "localhost")
.put("cluster.name", internalCluster().getClusterName())
.put("discovery.zen.minimum_master_nodes",
        internalCluster().getInstance(Settings.class).get("discovery.zen.minimum_master_nodes"))
.put("path.home", home)
.put(TestZenDiscovery.USE_MOCK_PINGS.getKey(), false)
.put(DiscoveryModule.DISCOVERY_TYPE_SETTING.getKey(), "test-zen")
.put(DiscoveryModule.DISCOVERY_HOSTS_PROVIDER_SETTING.getKey(), "test-zen")
.build();
Collection<Class<? extends Plugin>> mockPlugins = Arrays.asList(LocalStateSecurity.class,
TestZenDiscovery.TestPlugin.class,
MockHttpTransport.TestPlugin.class);
try (Node node = new MockNode(nodeSettings, mockPlugins)) {
    node.start();
    ensureStableCluster(cluster().size() + 1);
}

private static void assertElasticsearchSecurityException(ThrowingRunnable runnable) {
    ElasticsearchSecurityException ee = expectThrows(ElasticsearchSecurityException.class, runnable);
    assertThat(ee.getMetadata(LicenseUtils.EXPIRED_FEATURE_METADATA),
        hasItem(XPackField.SECURITY));
    assertThat(ee.status(), is(RestStatus.FORBIDDEN));
}

public static void disableLicensing() {
    disableLicensing(License.OperationMode.BASIC);
}

public static void disableLicensing(License.OperationMode operationMode) {
    for (XPackLicenseState licenseState : internalCluster().getInstances(XPackLicenseState.class)) {
        licenseState.update(operationMode, false);
    }
}

public static void enableLicensing() {
    enableLicensing(License.OperationMode.BASIC);
}

public static void enableLicensing(License.OperationMode operationMode) {
    for (XPackLicenseState licenseState : internalCluster().getInstances(XPackLicenseState.class)) {
        licenseState.update(operationMode, true);
    }
}
/*
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 */
import org.elasticsearch.action.get.GetAction;
import org.elasticsearch.test.ESTestCase;
import org.elasticsearch.xpack.core.security.authz.permission.Role;
import org.elasticsearch.xpack.core.security.authz.privilege.Privilege;
import java.util.function.Predicate;
import static org.elasticsearch.xpack.core.security.authz.privilege.IndexPrivilege.MONITOR;
import static org.elasticsearch.xpack.core.security.authz.privilege.IndexPrivilege.READ;
import static org.hamcrest.Matchers.is;
import static org.hamcrest.Matchers.notNullValue;

public class PermissionTests extends ESTestCase {
    private Role permission;

    @Before
    public void init() {
        Role.Builder builder = Role.builder("test");
        builder.add(MONITOR, "test_*", "/foo.*/");
        builder.add(READ, "baz_*foo", "/fool.*bar/");
        builder.add(MONITOR, "/bar.*/");
        permission = builder.build();
    }

    public void testAllowedIndicesMatcherAction() throws Exception {
        testAllowedIndicesMatcher(permission.indices().allowedIndicesMatcher(GetAction.NAME));
    }

    public void testAllowedIndicesMatcherActionCaching() throws Exception {
        Predicate<String> matcher1 = permission.indices().allowedIndicesMatcher(GetAction.NAME);
        Predicate<String> matcher2 = permission.indices().allowedIndicesMatcher(GetAction.NAME);
        assertThat(matcher1, is(matcher2));
    }

    public void testBuildEmptyRole() {
        Role.Builder permission = Role.builder(new String[] { "some_role" });
        Role role = permission.build();
        assertThat(role, notNullValue());
        assertThat(role.cluster(), notNullValue());
        assertThat(role.indices(), notNullValue());
        assertThat(role.runAs(), notNullValue());
    }
}
public void testRunAs() {
    Role permission = Role.builder("some_role")
        .runAs(new Privilege("name", "user1", "run*"))
        .build();
    assertThat(permission.runAs().check("user1"), is(true));
    assertThat(permission.runAs().check("user"), is(false));
    assertThat(permission.runAs().check("run" + randomAlphaOfLengthBetween(1, 10)), is(true));
}

// "baz_*foo", "/fool.*bar/"
private void testAllowedIndicesMatcher(Predicate<String> indicesMatcher) {
    assertThat(indicesMatcher.test("foobar"), is(false));
    assertThat(indicesMatcher.test("fool"), is(false));
    assertThat(indicesMatcher.test("fool2bar"), is(true));
    assertThat(indicesMatcher.test("baz_foo"), is(true));
    assertThat(indicesMatcher.test("barbapapa"), is(false));
}
}

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 */
package org.elasticsearch.xpack.security.authz.permission;

import org.elasticsearch.ElasticsearchParseException;
import org.elasticsearch.common.bytes.BytesArray;
import org.elasticsearch.common.xcontent.XContentType;
import org.elasticsearch.test.ESTestCase;
import org.elasticsearch.xpack.core.security.authz.RoleDescriptor;
import org.elasticsearch.xpack.core.security.authz.permission.FieldPermissions;
import org.elasticsearch.xpack.core.security.authz.permission.FieldPermissionsDefinition;
import java.util.ArrayList;
import java.util.List;
import java.util.concurrent.CountDownLatch;
import java.util.concurrent.atomic.AtomicReferenceArray;
import static org.hamcrest.Matchers.containsString;

public class FieldPermissionsTests extends ESTestCase {

    public void testParseFieldPermissions() throws Exception {

        String q = "{"indices": [{"names": "idx2", "privileges": ["p3"], "field_security": {
            "grant": ["f1", "f2", "f3", "f4"],
            "except": ["f3","f4"]
        }}]};";
    }
}

RoleDescriptor rd = RoleDescriptor.parse("test", new BytesArray(q), false, XContentType.JSON);
assertArrayEquals(rd.getIndicesPrivileges()[0].getGrantedFields(),
    new String[] { "f1", "f2", "f3", "f4" });
assertArrayEquals(rd.getIndicesPrivileges()[0].getDeniedFields(),
    new String[] { "f3", "f4" });
q = "{"\"indices\": [ {\"names\": \"idx2\", \"privileges\": [\"p3\"] } ] }";
rd = RoleDescriptor.parse("test", new BytesArray(q), false, XContentType.JSON);
assertArrayEquals(rd.getIndicesPrivileges()[0].getGrantedFields(),
    new String[] { "f1", "f2", "f3", "f4" });
assertArrayEquals(rd.getIndicesPrivileges()[0].getDeniedFields(),
    new String[] { "f3", "f4" });
q = "{"\"indices\": [ {\"names\": \"idx2\", \"privileges\": [\"p3\"] } ] }";
rd = RoleDescriptor.parse("test", new BytesArray(q), false, XContentType.JSON);
assertArrayEquals(rd.getIndicesPrivileges()[0].getGrantedFields(),
    new String[] { "f1", "f2" });
assertNull(rd.getIndicesPrivileges()[0].getDeniedFields());
q = "{"\"indices\": [ {\"names\": \"idx2\", \"privileges\": [\"p3\"] } ] }";
rd = RoleDescriptor.parse("test", new BytesArray(q), false, XContentType.JSON);
assertArrayEquals(rd.getIndicesPrivileges()[0].getGrantedFields(),
    new String[] { "f1", "f2" });
assertNull(rd.getIndicesPrivileges()[0].getDeniedFields());
q = "{"\"indices\": [ {\"names\": \"idx2\", \"privileges\": [\"p3\"] } ] }";
rd = RoleDescriptor.parse("test", new BytesArray(q), false, XContentType.JSON);
assertArrayEquals(rd.getIndicesPrivileges()[0].getGrantedFields(),
    new String[] { "f1", "f2" });
assertNull(rd.getIndicesPrivileges()[0].getDeniedFields());
q = "{"\"indices\": [ {\"names\": \"idx2\", \"privileges\": [\"p3\"] } ] }";
rd = RoleDescriptor.parse("test", new BytesArray(q), false, XContentType.JSON);
assertArrayEquals(rd.getIndicesPrivileges()[0].getGrantedFields(),
    new String[] { "f1", "f2" });
assertNull(rd.getIndicesPrivileges()[0].getDeniedFields());
q = "{"\"indices\": [ {\"names\": \"idx2\", \"privileges\": [\"p3\"] } ] }";
rd = RoleDescriptor.parse("test", new BytesArray(q), false, XContentType.JSON);
assertArrayEquals(rd.getIndicesPrivileges()[0].getGrantedFields(),
    new String[] { "f1", "f2" });
assertNull(rd.getIndicesPrivileges()[0].getDeniedFields());
final String exceptWithoutGrant = "{"\"indices\": [ {\"names\": \"idx2\", \"privileges\": [\"p3\"] } ] }";
ElasticsearchParseException e = expectThrows(ElasticsearchParseException.class, () -> RoleDescriptor.parse("test", new BytesArray(exceptWithoutGrant), false, XContentType.JSON));
assertThat(e.getDetailedMessage(), containsString("failed to parse indices privileges for role [test]. field_security" + " requires grant if except is given"));

final String grantNull = "{\"indices": [ {\"names\": \"idx2\", \"privileges\": [\"p3\"]}, {\"field_security\": {" + "\"grant": null" + "} }]}";
e = expectThrows(ElasticsearchParseException.class, () -> RoleDescriptor.parse("test", new BytesArray(grantNull), false, XContentType.JSON));
assertThat(e.getDetailedMessage(), containsString("failed to parse indices privileges for" + " role [test]. grant must not be null.");

final String exceptNull = "{\"indices": [ {\"names\": \"idx2\", \"privileges\": [" + "\"p3\"], \"field_security\": {" + "\"grant": [" + "\"except": null" + "} ]}]}";
e = expectThrows(ElasticsearchParseException.class, () -> RoleDescriptor.parse("test", new BytesArray(exceptNull), false, XContentType.JSON));
assertThat(e.getDetailedMessage(), containsString("failed to parse indices privileges for role [test]. except must" + " not be null.");

final String exceptGrantNull = "{\"indices": [ {\"names\": \"idx2\", \"privileges\": [" + "\"p3\"], \"field_security\": {" + "\"grant": null," + "\"except": null" + "} ]}]}";
e = expectThrows(ElasticsearchParseException.class, () -> RoleDescriptor.parse("test", new BytesArray(exceptGrantNull), false, XContentType.JSON));
assertThat(e.getDetailedMessage(), containsString("failed to parse indices privileges for role [test]. grant must not be null.");

final String bothFieldsMissing = "{\"indices": [ {\"names\": \"idx2\", \"privileges\": [" + "\"p3\"], \"field_security\": {" + "\"grant": null," + "\"except": null" + "} ]}]}";
e = expectThrows(ElasticsearchParseException.class, () -> RoleDescriptor.parse("test", new BytesArray(bothFieldsMissing), false, XContentType.JSON));
assertThat(e.getDetailedMessage(), containsString("failed to parse indices privileges " + "for role [test]. grant must not be null.");

final String bothFieldsMissing = "{\"indices": [ {\"names\": \"idx2\", \"privileges\": [" + "\"p3\"], \"field_security\": {" + "} ]}]}";
e = expectThrows(ElasticsearchParseException.class, () -> RoleDescriptor.parse("test", new BytesArray(bothFieldsMissing), false, XContentType.JSON));
assertThat(e.getDetailedMessage(), containsString("failed to parse indices privileges " + "for role [test]. \"field_security\" must not be empty.");
// try with two indices and mix order a little
q = "{"indices": [ {"names": "idx2", "privileges": ["p3"]}, " + 
  "field_security": { " + 
  "grant": [ ]}, " + 
  "names": "idx3", }," + 
  "field_security": {" + 
  "except": [ "f2"], }], " + 
  "privileges": ["p3"]]));
rd = RoleDescriptor.parse("test", new BytesArray(q), false, XContentType.JSON);
assertArrayEquals(rd.getIndicesPrivileges()[0].getGrantedFields(), new String[]{ });
assertNull(rd.getIndicesPrivileges()[0].getDeniedFields());
assertArrayEquals(rd.getIndicesPrivileges()[1].getGrantedFields(), new String[]{ "*" });
assertArrayEquals(rd.getIndicesPrivileges()[1].getDeniedFields(), new String[]{ "f2" });
}

// test old syntax for field permissions
public void testBWCFieldPermissions() throws Exception {
  String q = "{"indices": [ {"names": "idx2", "privileges": ["p3"]}, " + 
    "fields": ["f1", "f2"]}" + 
  "]"};
RoleDescriptor rd = RoleDescriptor.parse("test", new BytesArray(q), true, XContentType.JSON);
assertArrayEquals(rd.getIndicesPrivileges()[0].getGrantedFields(), new String[]{ "f1", "f2" });
assertNull(rd.getIndicesPrivileges()[0].getDeniedFields());
final String failingQuery = q;
ElasticsearchParseException e = expectThrows(ElasticsearchParseException.class, () -> RoleDescriptor.parse("test", new BytesArray(failingQuery), false, XContentType.JSON));
assertThat(e.getDetailedMessage(), containsString("["fields": [...]] format has " + 
  "changed for field permissions in role [test]" + 
  ", use ["field_security": {"grant": [...],"except": [...]}] instead");
q = "{"indices": [ {"names": "idx2", "privileges": ["p3"]}, " + 
  "fields": [ ]}" + 
  
}];
rd = RoleDescriptor.parse("test", new BytesArray(q), true, XContentType.JSON);
assertArrayEquals(rd.getIndicesPrivileges()[0].getGrantedFields(), new String[]{ });
assertNull(rd.getIndicesPrivileges()[0].getDeniedFields());
final String failingQuery2 = q;
e = expectThrows(ElasticsearchParseException.class, () -> RoleDescriptor.parse("test", new BytesArray(failingQuery2), false, XContentType.JSON));
assertThat(e.getDetailedMessage(), containsString("["fields": [...]] format has "+ 
  "changed for field permissions in role [test]" + 
  ", use ["field_security": {"grant": [...],"except": [...]}] instead");
q = "{"indices": [ {"names": "idx2", "privileges": ["p3"]}, " + 
  "fields": [ ]}" + 
  
}];
rd = RoleDescriptor.parse("test", new BytesArray(q), true, XContentType.JSON);
assertArrayEquals(rd.getIndicesPrivileges()[0].getGrantedFields(), new String[]{ });
assertNull(rd.getIndicesPrivileges()[0].getDeniedFields());
final String failingQuery3 = q;
e = expectThrows(ElasticsearchParseException.class, () -> RoleDescriptor.parse("test", new BytesArray(failingQuery3), false, XContentType.JSON));
assertThat(e.getDetailedMessage(), containsString("["fields": [...]] format has "+ 
  "changed for field permissions in role [test]" + 
  ", use ["field_security": {"grant": [...],"except": [...]}] instead");
q = "{"indices": [ {"names": "idx2", "privileges": ["p3"]}, " + 
  "fields": [ ]}" + 
  
}];
rd = RoleDescriptor.parse("test", new BytesArray(q), true, XContentType.JSON);
assertArrayEquals(rd.getIndicesPrivileges()[0].getGrantedFields(), new String[]{ });
assertNull(rd.getIndicesPrivileges()[0].getDeniedFields());
final String failingQuery4 = q;
e = expectThrows(ElasticsearchParseException.class, () -> RoleDescriptor.parse("test", new BytesArray(failingQuery4), false, XContentType.JSON));
assertThat(e.getDetailedMessage(), containsString("["fields": [...]] format has "+ 
  "changed for field permissions in role [test]" + 
  ", use ["field_security": {"grant": [...],"except": [...]}] instead");
q = "{"indices": [ {"names": "idx2", "privileges": ["p3"]}, " + 
  "fields": [ ]}" + 
  
}];
rd = RoleDescriptor.parse("test", new BytesArray(q), true, XContentType.JSON);
assertArrayEquals(rd.getIndicesPrivileges()[0].getGrantedFields(), new String[]{ });
assertNull(rd.getIndicesPrivileges()[0].getDeniedFields());
final String failingQuery5 = q;
e = expectThrows(ElasticsearchParseException.class, () -> RoleDescriptor.parse("test", new BytesArray(failingQuery5), false, XContentType.JSON));
assertThat(e.getDetailedMessage(), containsString("["fields": [...]] format has "+ 
  "changed for field permissions in role [test]" + 
  ", use ["field_security": {"grant": [...],"except": [...]}] instead");
q = "{"indices": [ {"names": "idx2", "privileges": ["p3"]}, " + 
  "fields": [ ]}" + 
  
}];
rd = RoleDescriptor.parse("test", new BytesArray(q), true, XContentType.JSON);
assertArrayEquals(rd.getIndicesPrivileges()[0].getGrantedFields(), new String[]{ });
assertNull(rd.getIndicesPrivileges()[0].getDeniedFields());
final String failingQuery6 = q;
e = expectThrows(ElasticsearchParseException.class, () -> RoleDescriptor.parse("test", new BytesArray(failingQuery6), false, XContentType.JSON));
assertThat(e.getDetailedMessage(), containsString("["fields": [...]] format has "+ 
  "changed for field permissions in role [test]" + 
  ", use ["field_security": {"grant": [...],"except": [...]}] instead");
q = "{"indices": [ {"names": "idx2", "privileges": ["p3"]}, " + 
  "fields": [ ]}" + 
  
}];
rd = RoleDescriptor.parse("test", new BytesArray(q), true, XContentType.JSON);
assertArrayEquals(rd.getIndicesPrivileges()[0].getGrantedFields(), new String[]{ });
assertNull(rd.getIndicesPrivileges()[0].getDeniedFields());
final String failingQuery7 = q;
e = expectThrows(ElasticsearchParseException.class, () -> RoleDescriptor.parse("test", new BytesArray(failingQuery7), false, XContentType.JSON));
assertThat(e.getDetailedMessage(), containsString("["fields": [...]] format has "+ 
  "changed for field permissions in role [test]" + 
  ", use ["field_security": {"grant": [...],"except": [...]}] instead");
q = "{"indices": [ {"names": "idx2", "privileges": ["p3"]}, " + 
  "fields": [ ]}" + 
  
}];
rd = RoleDescriptor.parse("test", new BytesArray(q), true, XContentType.JSON);
assertArrayEquals(rd.getIndicesPrivilege
"changed for field permissions in role [test]" +
", use ["field_security": {"grant": [...],"except": [...]}] instead"");

q = "{\"indices\": [ {\"names\": \"idx2\", \"privileges\": [\"p3\"], " +
\"fields\": null" +
  "]"}];
rd = RoleDescriptor.parse("test", new BytesArray(q), true, XContentType.JSON);
assertNull(rd.getIndicesPrivileges()[0].getGrantedFields());
assertNull(rd.getIndicesPrivileges()[0].getDeniedFields());
final String failingQuery3 = q;
e = expectThrows(ElasticsearchParseException.class,
() -> RoleDescriptor.parse("test", new BytesArray(failingQuery3), false,
XContentType.JSON));
assertThat(e.getDetailedMessage(), containsString("[\"fields\": [...]] format has " +
"changed for field permissions in role [test]" +
", use ["field_security": {"grant": [...],"except": [...]}] instead");
}

public void testFieldPermissionsHashCodeThreadSafe() throws Exception {
    final int numThreads = scaledRandomIntBetween(4, 16);
    final FieldPermissions fieldPermissions = new FieldPermissions(        
        new FieldPermissionsDefinition(new String[] { "*" }, new String[] { "foo" }));
    final CountDownLatch latch = new CountDownLatch(numThreads + 1);
    final AtomicReferenceArray<Integer> hashCodes = new AtomicReferenceArray<>(numThreads);
    List<Thread> threads = new ArrayList<>(numThreads);
    for (int i = 0; i < numThreads; i++) {
        final int threadNum = i;
        threads.add(new Thread(() -> {
            latch.countDown();
            try {
                latch.await();
            } catch (InterruptedException e) {
                Thread.currentThread().interrupt();
            }
        final int hashCode = fieldPermissions.hashCode();
        hashCodes.set(threadNum, hashCode);
    });
    }
    for (Thread thread : threads) {
        thread.start();
    }
    latch.countDown();
    for (Thread thread : threads) {
        thread.join();
    }
    final int hashCode = fieldPermissions.hashCode();
for (int i = 0; i < numThreads; i++) {
    assertEquals((Integer) hashCode, hashCodes.get(i));
}

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1 contributor

Users who have contributed to this file

dfish3r

History

You must be signed in to make or propose changes
Cryptacular Java Library

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your session.</span>
</div>
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<div class="facebox-popup">
<div class="facebox-content" role="dialog" aria-labelledby="facebox-header" aria-describedby="facebox-description">
<button type="button" class="facebox-close js-facebox-close" aria-label="Close modal">
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</button>
</div>
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</body>
</html>

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/*
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package org.elasticsearch.license.licensor;

import org.apache.lucene.util.BytesRef;
import org.apache.lucene.util.BytesRefIterator;
import org.elasticsearch.common.bytes.BytesReference;
import org.elasticsearch.common.hash.MessageDigests;
import org.elasticsearch.common.xcontent.ToXContent;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.common.xcontent.XContentType;
import org.elasticsearch.common.xcontent.XContentFactory;
import org.elasticsearch.license.CryptUtils;
import org.elasticsearch.license.License;

import java.io.IOException;
import java.nio.ByteBuffer;
import java.nio.file.Files;
import java.nio.file.Path;
import java.security.InvalidKeyException;
import java.security.MessageDigest;
import java.security.NoSuchAlgorithmException;
import java.security.PrivateKey;
import java.security.PublicKey;
import java.security.SecureRandom;
import java.security.Signature;
import java.security.SignatureException;
import java.util.Base64;
import java.util.Collections;
import java.util.Map;

/**
 * Responsible for generating a license signature according to the signature spec and sign it with
 * the provided encrypted private key
 */
public class LicenseSigner {

    private static final int MAGIC_LENGTH = 13;
    private final Path publicKeyPath;
    private final Path privateKeyPath;

    public LicenseSigner(final Path privateKeyPath, final Path publicKeyPath) {
        this.publicKeyPath = publicKeyPath;
        this.privateKeyPath = privateKeyPath;
    }

    /**
     * Generates a signature for the @code licenseSpec}. Signature structure:
public License sign(License licenseSpec) throws IOException {
    XContentBuilder contentBuilder = XContentFactory.contentBuilder(XContentType.JSON);
    final Map<String, String> licenseSpecViewMode = Collections.singletonMap(License.LICENSE_SPEC_VIEW_MODE, "true");
    licenseSpec.toXContent(contentBuilder, new ToXContent.MapParams(licenseSpecViewMode));
    final byte[] signedContent;
    final boolean preV4 = licenseSpec.version() < License.VERSION_CRYPTO_ALGORITHMS;
    try {
        final Signature rsa = Signature.getInstance("SHA512withRSA");
        PrivateKey decryptedPrivateKey = CryptUtils.readEncryptedPrivateKey(Files.readAllBytes(privateKeyPath));
        rsa.initSign(decryptedPrivateKey);
        final BytesRefIterator iterator = BytesReference.bytes(contentBuilder).iterator();
        BytesRef ref;
        while((ref = iterator.next()) != null) {
            rsa.update(ref.bytes, ref.offset, ref.length);
        }
        signedContent = rsa.sign();
    } catch (InvalidKeyException | IOException | NoSuchAlgorithmException | SignatureException e) {
        throw new IllegalStateException(e);
    } finally {
        final byte[] magic = new byte[MAGIC_LENGTH];
        SecureRandom random = new SecureRandom();
        random.nextBytes(magic);
        final byte[] publicKeyBytes = Files.readAllBytes(publicKeyPath);
        PublicKey publicKey = CryptUtils.readPublicKey(publicKeyBytes);
        final byte[] pubKeyFingerprint = preV4 ?
            Base64.getEncoder().encode(CryptUtils.writeEncryptedPublicKey(publicKey)) :
            getPublicKeyFingerprint(publicKeyBytes);
        byte[] bytes = new byte[4 + 4 + MAGIC_LENGTH + 4 + pubKeyFingerprint.length + 4 +
            signedContent.length];
        ByteBuffer byteBuffer = ByteBuffer.wrap(bytes);
        byteBuffer.putInt(licenseSpec.version());
        byteBuffer.putInt(magic.length);
        byteBuffer.put(magic);
        byteBuffer.putInt(pubKeyFingerprint.length);
        byteBuffer.put(pubKeyFingerprint);
        byteBuffer.putInt(signedContent.length);
        byteBuffer.put(signedContent);
    }
}
return License.builder()
    .fromLicenseSpec(licenseSpec, Base64.getEncoder().encodeToBase64(licenseSpec.getBytes()))
    .build();
}

private byte[] getPublicKeyFingerprint(byte[] keyBytes) {
    MessageDigest sha256 = MessageDigests.sha256();
    sha256.update(keyBytes);
    return sha256.digest();
}

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zm\nL~1~"?k?~gyk,b\_41K??d2kgbS7~QjIqNjJ.Lr-9Vl34uNe+4dpP.V]uvq4D]08LrTeg5Z+n@&+(P=-M"
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log4j.logger.org.elasticsearch.license=TRACE
log4j.appender.out=org.apache.log4j.ConsoleAppender
log4j.appender.out.layout=org.apache.log4j.PatternLayout
log4j.appender.out.layout.conversionPattern=[%d{ISO8601}][%-5p][%-25c] %m%n
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*/

package org.elasticsearch.license.licensor;

import org.elasticsearch.license.licensor.common.unit.TimeValue;
import org.elasticsearch.license.licensor.DateUtils;
import org.elasticsearch.license.licensor;
import org.elasticsearch.license.LicenseVerifier;
import org.elasticsearch.test.ESTestCase;
import org.junit.After;
import org.junit.Before;
import java.nio.file.Files;
import java.nio.file.Path;

public class LicenseVerificationTests extends ESTestCase {

    protected Path pubKeyPath = null;
    protected Path priKeyPath = null;

    @Before
    public void setup() throws Exception {
        pubKeyPath = getDataPath("/public.key");
        priKeyPath = getDataPath("/private.key");
    }

    @After
    public void cleanUp() {
        pubKeyPath = null;
        priKeyPath = null;
    }

    public void testGeneratedLicenses() throws Exception {
        final TimeValue fortyEightHours = TimeValue.timeValueHours(2 * 24);
        final License license =
            TestUtils.generateSignedLicense(fortyEightHours, pubKeyPath, priKeyPath);
        assertTrue(LicenseVerifier.verifyLicense(license, Files.readAllBytes(pubKeyPath)));
    }

    public void testLicenseTampering() throws Exception {
        final TimeValue twoHours = TimeValue.timeValueHours(2);
        License license = TestUtils.generateSignedLicense(twoHours, pubKeyPath, priKeyPath);
        final License tamperedLicense = License.builder()
            .fromLicenseSpec(license, license.signature())
            .expiryDate(license.expiryDate() + 10 * 24 * 60 * 60 * 1000L)
            .validate()
            .build();

        assertFalse(LicenseVerifier.verifyLicense(tamperedLicense, Files.readAllBytes(pubKeyPath)));
    }

    public void testRandomLicenseVerification() throws Exception {
        TestUtils.LicenseSpec licenseSpec = TestUtils.generateRandomLicenseSpec(
            randomIntBetween(License.VERSION_START, License.VERSION_CURRENT));
    }
}
private static License generateSignedLicense(
    TestUtils.LicenseSpec spec, Path pubKeyPath, Path priKeyPath) throws Exception {
    LicenseSigner signer = new LicenseSigner(priKeyPath, pubKeyPath);
    License.Builder builder = License.builder()
        .uid(spec.uid)
        .feature(spec.feature)
        .type(spec.type)
        .subscriptionType(spec.subscriptionType)
        .issuedTo(spec.issuedTo)
        .issuer(spec.issuer)
        .maxNodes(spec.maxNodes);

    if (spec.expiryDate != null) {
        builder.expiryDate(DateUtils.endOfTheDay(spec.expiryDate));
    } else {
        builder.expiryDate(spec.expiryDateInMillis);
    }
    if (spec.issueDate != null) {
        builder.issueDate(DateUtils.beginningOfTheDay(spec.issueDate));
    } else {
        builder.issueDate(spec.issueDateInMillis);
    }
    builder.version(spec.version);
    return signer.sign(builder.build());
}

/*/ 
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*/
package org.elasticsearch.license.licensor;

import org.elasticsearch.common.Strings;
import org.elasticsearch.common.joda.DateMathParser;
import org.elasticsearch.common.joda.Formatter.DateTimeFormatter;
import org.elasticsearch.common.joda.Joda;
import org.elasticsearch.common.unit.TimeValue;
import org.elasticsearch.common.xcontent.ToXContent;
import org.elasticsearch.common.xcontent.XContentBuilder;
import org.elasticsearch.common.xcontent.XContentType;
import org.elasticsearch.license.DateUtils;
import org.elasticsearch.license.License;
import org.elasticsearch.test.ESTestCase;
import org.hamcrest.MatcherAssert;
import org.joda.time.format.DateTimeFormatter;
import java.io.IOException;
import java.nio.file.Path;
import java.util.UUID;
import static com.carrotsearch.randomizedtesting.RandomizedTest.randomBoolean;
import static com.carrotsearch.randomizedtesting.RandomizedTest.randomInt;
import static com.carrotsearch.randomizedtesting.RandomizedTest.randomIntBetween;
import static org.elasticsearch.common.xcontent.XContentFactory.jsonBuilder;
import static org.elasticsearch.test.ESTestCase.randomFrom;
import static org.hamcrest.core.IsEqual.equalTo;

public class TestUtils {

    public static final String PUBLIC_KEY_RESOURCE = "/public.key";
    public static final String PRIVATE_KEY_RESOURCE = "/private.key";

    private static final FormatDateTimeFormatter formatDateTimeFormatter =
        Joda.forPattern("yyyy-MM-dd");
    private static final DateMathParser dateMathParser =
        new DateMathParser(formatDateTimeFormatter);
    private static final DateTimeFormatter dateTimeFormatter = formatDateTimeFormatter.printer();

    public static String dumpLicense(License license) throws Exception {
        XContentBuilder builder = XContentFactory.contentBuilder(XContentType.JSON);
        builder.startObject();
        builder.startObject("license");
        license.toInnerXContent(builder, ToXContent.EMPTY_PARAMS);
        builder.endObject();
        builder.endObject();
        return Strings.toString(builder);
    }

    public static String dateMathString(String time, final long now) {
        return dateTimeFormatter.print(dateMathParser.parse(time, () -> now));
    }

    public static long dateMath(String time, final long now) {
        return dateMathParser.parse(time, () -> now);
    }

    public static LicenseSpec generateRandomLicenseSpec(int version) {
        boolean datesInMillis = randomBoolean();
        long now = System.currentTimeMillis();

String uid = UUID.randomUUID().toString();
String issuer = "issuer__" + randomInt();
String issuedTo = "issuedTo__" + randomInt();
String type = version < License.VERSION_NO_FEATURE_TYPE ?
    randomFrom("subscription", "internal", "development") :
    randomFrom("basic", "silver", "dev", "gold", "platinum");
final String subscriptionType;
final String feature;
if (version < License.VERSION_NO_FEATURE_TYPE) {
    subscriptionType = randomFrom("gold", "silver", "platinum");
    feature = "feature__" + randomInt();
} else {
    subscriptionType = null;
    feature = null;
}
int maxNodes = randomIntBetween(5, 100);
if (datesInMillis) {
    long issueDateInMillis = dateMath("now", now);
    long expiryDateInMillis = dateMath("now+10d/d", now);
    return new LicenseSpec(
        version,
        uid,
        feature,
        issueDateInMillis,
        expiryDateInMillis,
        type,
        subscriptionType,
        issuedTo,
        issuer,
        maxNodes);
} else {
    String issueDate = dateMathString("now", now);
    String expiryDate = dateMathString("now+10d/d", now);
    return new LicenseSpec(
        version,
        uid,
        feature,
        issueDate,
        expiryDate, type,
        subscriptionType,
        issuedTo,
        issuer,
        maxNodes);
}

public static String generateLicenseSpecString(LicenseSpec licenseSpec) throws IOException {
    XContentBuilder licenses = jsonBuilder();
licenses.startObject();
licenses.startObject("license")
    .field("uid", licenseSpec.uid)
    .field("type", licenseSpec.type)
    .field("subscription_type", licenseSpec.subscriptionType)
    .field("issued_to", licenseSpec.issuedTo)
    .field("issuer", licenseSpec.issuer)
    .field("feature", licenseSpec.feature)
    .field("max_nodes", licenseSpec.maxNodes);

if (licenseSpec.issueDate != null) {
    licenses.field("issue_date", licenseSpec.issueDate);
} else {
    licenses.field("issue_date_in_millis", licenseSpec.issueDateInMillis);
}
if (licenseSpec.expiryDate != null) {
    licenses.field("expiry_date", licenseSpec.expiryDate);
} else {
    licenses.field("expiry_date_in_millis", licenseSpec.expiryDateInMillis);
}
licenses.field("version", licenseSpec.version);
licenses.endObject();
licenses.endObject();
return Strings.toString(licenses);
}

public static void assertLicenseSpec(LicenseSpec spec, License license) {
    MatcherAssert.assertThat(license.uid(), equalTo(spec.uid));
    MatcherAssert.assertThat(license.issuedTo(), equalTo(spec.issuedTo));
    MatcherAssert.assertThat(license.issuer(), equalTo(spec.issuer));
    MatcherAssert.assertThat(license.type(), equalTo(spec.type));
    MatcherAssert.assertThat(license.maxNodes(), equalTo(spec.maxNodes));
    if (spec.issueDate != null) {
        MatcherAssert.assertThat(license.issueDate(), equalTo(DateUtils.beginningOfTheDay(spec.issueDate)));
    } else {
        MatcherAssert.assertThat(license.issueDate(), equalTo(spec.issueDateInMillis));
    }
    if (spec.expiryDate != null) {
        MatcherAssert.assertThat(license.expiryDate(), equalTo(DateUtils.endOfTheDay(spec.expiryDate)));
    } else {
        MatcherAssert.assertThat(license.expiryDate(), equalTo(spec.expiryDateInMillis));
    }
}
public static License generateSignedLicense(
    TimeValue expiryDuration, Path pubKeyPath, Path priKeyPath) throws Exception {
    long issue = System.currentTimeMillis();
    int version = ESTestCase.randomIntBetween(License.VERSION_START, License.VERSION_CURRENT);
    String type = version < License.VERSION_NO_FEATURE_TYPE ?
        randomFrom("subscription", "internal", "development") :
        randomFrom("trial", "basic", "silver", "dev", "gold", "platinum");
    final License.Builder builder = License.builder()
        .uid(UUID.randomUUID().toString())
        .expiryDate(issue + expiryDuration.getMillis())
        .issueDate(issue)
        .version(version)
        .type(type)
        .issuedTo("customer")
        .issuer("elasticsearch")
        .maxNodes(5);
    if (version == License.VERSION_START) {
        builder.subscriptionType(randomFrom("dev", "gold", "platinum", "silver"));
        builder.feature(ESTestCase.randomAlphaOfLength(10));
    }
    LicenseSigner signer = new LicenseSigner(priKeyPath, pubKeyPath);
    return signer.sign(builder.build());
}

public static class LicenseSpec {
    public final int version;
    public final String feature;
    public final String issueDate;
    public final long issueDateInMillis;
    public final String expiryDate;
    public final long expiryDateInMillis;
    public final String uid;
    public final String type;
    public final String subscriptionType;
    public final String issuedTo;
    public final String issuer;
    public final int maxNodes;

    public LicenseSpec(
        int version,
        String uid,
        String feature,
        long issueDateInMillis,
        long expiryDateInMillis,
        String type,
        String subscriptionType,
        String issuedTo,
        String issuer,
```java
int maxNodes) {
    this.version = version;
    this.feature = feature;
    this.issueDateInMillis = issueDateInMillis;
    this.issueDate = null;
    this.expiryDateInMillis = expiryDateInMillis;
    this.expiryDate = null;
    this.uid = uid;
    this.type = type;
    this.subscriptionType = subscriptionType;
    this.issuedTo = issuedTo;
    this.issuer = issuer;
    this.maxNodes = maxNodes;
}

public LicenseSpec(    
    int version,    
    String uid,    
    String feature,    
    String issueDate,    
    String expiryDate,    
    String type,    
    String subscriptionType,    
    String issuedTo,    
    String issuer,    
    int maxNodes) {
    this.version = version;
    this.feature = feature;
    this.issueDate = issueDate;
    this.issueDateInMillis = -1;
    this.expiryDate = expiryDate;
    this.expiryDateInMillis = -1;
    this.uid = uid;
    this.type = type;
    this.subscriptionType = subscriptionType;
    this.issuedTo = issuedTo;
    this.issuer = issuer;
    this.maxNodes = maxNodes;
}
```

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 */
package org.elasticsearch.license.licensor.tools;
import org.elasticsearch.cli.Command;
import org.elasticsearch.cli.CommandTestCase;
import org.elasticsearch.cli.ExitCodes;
import org.elasticsearch.cli.UserException;
import java.nio.file.Files;
import java.nio.file.Path;
import static org.hamcrest.CoreMatchers.containsString;
public class KeyPairGenerationToolTests extends CommandTestCase {
@Override
protected Command newCommand() {
return new KeyPairGeneratorTool();
}
public void testMissingKeyPaths() throws Exception {
Path exists = createTempFile("", "existing");
Path dne = createTempDir().resolve("dne");
UserException e = expectThrows(
UserException.class,
() -> execute(
"--publicKeyPath",
exists.toString(),
"--privateKeyPath",
dne.toString()));
assertThat(e.getMessage(), containsString("existing"));
assertEquals(ExitCodes.USAGE, e.exitCode);
e = expectThrows(
UserException.class,
() -> execute(
"--publicKeyPath",
dne.toString(),
"--privateKeyPath",
exists.toString()));
assertThat(e.getMessage(), containsString("existing"));
assertEquals(ExitCodes.USAGE, e.exitCode);
}
public void testTool() throws Exception {
Path keysDir = createTempDir();
Path publicKeyFilePath = keysDir.resolve("public");
Path privateKeyFilePath = keysDir.resolve("private");
execute(
"--publicKeyPath",

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8454


publicKeyFilePath.toString(),
"--privateKeyPath",
privateKeyFilePath.toString());
assertTrue(publicKeyFilePath.toString(), Files.exists(publicKeyFilePath));
assertTrue(privateKeyFilePath.toString(), Files.exists(privateKeyFilePath));
}
}
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*/
package org.elasticsearch.license.licensor.tools;

import org.elasticsearch.cli.Command;
import org.elasticsearch.cli.CommandTestCase;
import org.elasticsearch.cli.ExitCodes;
import org.elasticsearch.cli.UserException;
import org.elasticsearch.license.License;
import org.elasticsearch.license.licensor.TestUtils;
import org.junit.Before;
import java.nio.charset.StandardCharsets;
import java.nio.file.Files;
import java.nio.file.Path;

public class LicenseVerificationToolTests extends CommandTestCase {
    protected Path pubKeyPath = null;
    protected Path priKeyPath = null;

    @Before
    public void setup() throws Exception {
        logger.error("project.basedir [{}, {}]", System.getProperty("project.basedir"));
        pubKeyPath = getDataPath(TestUtils.PUBLIC_KEY_RESOURCE);
        priKeyPath = getDataPath(TestUtils.PRIVATE_KEY_RESOURCE);
    }

    @Override
    protected Command newCommand() {
        return new LicenseVerificationTool();
    }

    public void testMissingKeyPath() throws Exception {
        Path pub = createTempDir().resolve("pub");
        UserException e = expectThrows(
            UserException.class,
            () -> {
                execute("verify", --keyPath", pubKeyPath, pub.toString());
            });
        }
    }
}
() -> execute("--publicKeyPath", pub.toString()));
assertTrue(e.getMessage(), e.getMessage().contains("pub does not exist"));
assertEquals(ExitCodes.USAGE, e.exitCode);
}

public void testMissingLicenseSpec() throws Exception {
  UserException e = expectThrows(UserException.class, () -> {
    execute("--publicKeyPath", pubKeyPath.toString());
  });
  assertTrue(
    e.getMessage(),
    e.getMessage().contains("Must specify either --license or --licenseFile");
  assertEquals(ExitCodes.USAGE, e.exitCode);
}

public void testBrokenLicense() throws Exception {
  final TimeValue oneHour = TimeValue.timeValueHours(1);
  License signedLicense = TestUtils.generateSignedLicense(oneHour, pubKeyPath, priKeyPath);
  License tamperedLicense = License.builder()
    .fromLicenseSpec(signedLicense, signedLicense.signature())
    .expiryDate(signedLicense.expiryDate() + randomIntBetween(1, 1000)).build();
  UserException e = expectThrows(
    UserException.class,
    () -> execute(
      "--publicKeyPath",
      pubKeyPath.toString(),
      "--license",
      TestUtils.dumpLicense(tamperedLicense)));
  assertEquals("Invalid License!", e.getMessage());
  assertEquals(ExitCodes.DATA_ERROR, e.exitCode);
}

public void testLicenseSpecString() throws Exception {
  final TimeValue oneHour = TimeValue.timeValueHours(1);
  License signedLicense = TestUtils.generateSignedLicense(oneHour, pubKeyPath, priKeyPath);
  String output = execute(
    "--publicKeyPath",
    pubKeyPath.toString(),
    "--license",
    TestUtils.dumpLicense(signedLicense));
  assertFalse(output, output.isEmpty());
}

public void testLicenseSpecFile() throws Exception {
  final TimeValue oneHour = TimeValue.timeValueHours(1);
  License signedLicense = TestUtils.generateSignedLicense(oneHour, pubKeyPath, priKeyPath);
  Path licenseSpecFile = createTempFile();
  Files.write(
licenseSpecFile,
    TestUtils.dumpLicense(signedLicense).getBytes(StandardCharsets.UTF_8));
String output = execute(
    "--publicKeyPath",
    pubKeyPath.toString(),
    "--licenseFile",
    licenseSpecFile.toString());
    assertFalse(output, output.isEmpty());
}
} /*
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*/
package org.elasticsearch.license.licensor.tools;

import org.elasticsearch.cli.Command;
import org.elasticsearch.cli.CommandTestCase;
import org.elasticsearch.cli.ExitCodes;
import org.elasticsearch.cli.UserException;
import org.elasticsearch.common.bytes.BytesArray;
import org.elasticsearch.common.xcontent.XContentType;
import org.elasticsearch.license.License;
import org.elasticsearch.license.licensor.TestUtils;
import org.junit.Before;
import java.nio.charset.StandardCharsets;
import java.nio.file.Files;
import java.nio.file.Path;

public class LicenseGenerationToolTests extends CommandTestCase {

    protected Path pubKeyPath = null;
    protected Path priKeyPath = null;

    @Before
    public void setup() throws Exception {
        pubKeyPath = getDataPath(TestUtils.PUBLIC_KEY_RESOURCE);
        priKeyPath = getDataPath(TestUtils.PRIVATE_KEY_RESOURCE);
    }

    @Override
    protected Command newCommand() {
        return new LicenseGeneratorTool();
    }
public void testMissingKeyPaths() throws Exception {
    Path pub = createTempDir().resolve("pub");
    Path pri = createTempDir().resolve("pri");
    UserException e = expectThrows(
        UserException.class,
        () -> execute(
            "--publicKeyPath",
            pub.toString(),
            "--privateKeyPath",
            pri.toString()));
    assertTrue(e.getMessage(), e.getMessage().contains("pri does not exist"));
    assertEquals(ExitCodes.USAGE, e.exitCode);
    Files.createFile(pri);
    e = expectThrows(
        UserException.class,
        () -> execute(
            "--publicKeyPath",
            pub.toString(),
            "--privateKeyPath",
            pri.toString()));
    assertTrue(e.getMessage(), e.getMessage().contains("pub does not exist"));
    assertEquals(ExitCodes.USAGE, e.exitCode);
}

public void testMissingLicenseSpec() throws Exception {
    UserException e = expectThrows(
        UserException.class,
        () -> execute(
            "--publicKeyPath",
            pubKeyPath.toString(),
            "--privateKeyPath",
            priKeyPath.toString()));
    assertTrue(
        e.getMessage(),
        e.getMessage().contains("Must specify either --license or --licenseFile");
    assertEquals(ExitCodes.USAGE, e.exitCode);
}

public void testLicenseSpecString() throws Exception {
    TestUtils.LicenseSpec inputLicenseSpec =
        TestUtils.generateRandomLicenseSpec(License.VERSION_CURRENT);
    String licenseSpecString = TestUtils.generateLicenseSpecString(inputLicenseSpec);
    String output = execute(
        "--publicKeyPath",
        pubKeyPath.toString(),
        "--privateKeyPath",
        priKeyPath.toString());
}
"--license",
  licenseSpecString);
final BytesArray bytes = new BytesArray(output.getBytes(StandardCharsets.UTF_8));
License outputLicense = License.fromSource(bytes, XContentType.JSON);
TestUtils.assertLicenseSpec(inputLicenseSpec, outputLicense);
}

public void testLicenseSpecFile() throws Exception {
  TestUtils.LicenseSpec inputLicenseSpec =
      TestUtils.generateRandomLicenseSpec(License.VERSION_CURRENT);
  String licenseSpecString = TestUtils.generateLicenseSpecString(inputLicenseSpec);
  Path licenseSpecFile = createTempFile();
  Files.write(licenseSpecFile, licenseSpecString.getBytes(StandardCharsets.UTF_8));
  String output = execute(
      "--publicKeyPath",
pubKeyPath.toString(),
      "--privateKeyPath",
priKeyPath.toString(),
      "--licenseFile",
      licenseSpecFile.toString());
  final BytesArray bytes = new BytesArray(output.getBytes(StandardCharsets.UTF_8));
  License outputLicense = License.fromSource(bytes, XContentType.JSON);
  TestUtils.assertLicenseSpec(inputLicenseSpec, outputLicense);
}

apply plugin: 'elasticsearch.build'

dependencies {
  compile project(xpackModule('core'))
  compile "org.elasticsearch:elasticsearch:${version}"
  testCompile "org.elasticsearch.test:framework:${version}"
}

project.forbiddenPatterns {
  exclude '**/*.key'
}

dependencyLicenses.enabled = false

task buildZip(type: Zip, dependsOn: jar) {
  String parentDir = "license-tools-${version}"
  into(parentDir + '/lib') {
    from jar
    from configurations.runtime
  }
  into(parentDir + '/bin') {
    from 'bin'
  }
}
assemble.dependsOn buildZip
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http://bitbucket.org/jpbarrette/moman/overview/

The class org.apache.lucene.util.WeakIdentityMap was derived from
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The snowball stemmers in
\texttt{analysis/common/src/java/net/sf/snowball}
were developed by Martin Porter and Richard Boulton.
The snowball stopword lists in
\texttt{analysis/common/src/resources/org/apache/lucene/analysis/snowball}
were developed by Martin Porter and Richard Boulton.
The full snowball package is available from
http://snowball.tartarus.org/

The KStem stemmer in
\texttt{analysis/common/src/org/apache/lucene/analysis/en}
was developed by Bob Krovetz and Sergio Guzman-Lara (CIIR-UMass Amherst)
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The Arabic,Persian,Romanian,Bulgarian, Hindi and Bengali analyzers (common) come with a default
stopword list that is BSD-licensed created by Jacques Savoy. These files reside in:
\texttt{analysis/common/src/resources/org/apache/lucene/analysis/ar/stopwords.txt},
\texttt{analysis/common/src/resources/org/apache/lucene/analysis/fa/stopwords.txt},
\texttt{analysis/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt},
\texttt{analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt},
\texttt{analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt},
\texttt{analysis/common/src/resources/org/apache/lucene/analysis/bn/stopwords.txt}

The German,Spanish,Finnish,French,Hungarian,Italian,Portuguese,Russian and Swedish light stemmers
(common) are based on BSD-licensed reference implementations created by Jacques Savoy and
Ljiljana Dolamic. These files reside in:
\texttt{analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java},
\texttt{analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java},
\texttt{analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java},
\texttt{analysis/common/src/java/org/apache/lucene/analysis/it/ItalianLightStemmer.java},
\texttt{analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java},
\texttt{analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchMinimalStemmer.java},
\texttt{analysis/common/src/java/org/apache/lucene/analysis/hu/HungarianLightStemmer.java},
\texttt{analysis/common/src/java/org/apache/lucene/analysis/it/ItalianLightStemmer.java},
\texttt{analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java},
\texttt{analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java},
\texttt{analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java}

The Stempel analyzer (stempel) includes BSD-licensed software developed
by the Egothor project http://egothor.sf.net/, created by Leo Galambos, Martin Kvapil,
and Edmond Nolan.

The Polish analyzer (stempel) comes with a default
stopword list that is BSD-licensed created by the Carrot2 project. The file resides
in stempel/src/resources/org/apache/lucene/analysis/pl/stopwords.txt.
See http://project.carrot2.org/license.html.
The SmartChineseAnalyzer source code (smartcn) was
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WordBreakTestUnicode_*.java (under modules/analysis/common/src/test/)
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The Morfologik analyzer (morfologik) includes BSD-licensed software
developed by Dawid Weiss and Marcin Mikowski (http://morfologik.blogspot.com/).

Morfologik uses data from Polish ispell/myspell dictionary
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(http://sgjp.pl/morfeusz/)

Servlet-api.jar and javax.servlet-*.jar are under the CDDL license, the original
source code for this can be found at http://www.eclipse.org/jetty/downloads.php

===========================================================================
Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration
===========================================================================

This software includes a binary and/or source version of data from

mecab-ipadic-2.7.0-20070801

which can be obtained from

http://atilika.com/releases/mecab-ipadic/mecab-ipadic-2.7.0-20070801.tar.gz

or

http://jaist.dl.sourceforge.net/project/mecab/mecab-ipadic/2.7.0-20070801/mecab-ipadic-2.7.0-20070801.tar.gz

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mecab-ipadic-2.7.0-20070801 Notice
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- `analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java`
- `analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java`
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- `analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java`
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***The art of simplicity is a puzzle of complexity.***

## Overview ##

[YAML](http://yaml.org) is a data serialization format designed for human readability and interaction with scripting
languages.

SnakeYAML is a YAML processor for the Java Virtual Machine.

## SnakeYAML features ##

* a **complete** [YAML 1.1 processor](http://yaml.org/spec/1.1/current.html). In particular, SnakeYAML can parse all examples from the specification.
* Unicode support including UTF-8/UTF-16 input/output.
* high-level API for serializing and deserializing native Java objects.
* support for all types from the [YAML types repository](http://yaml.org/type/index.html).
* relatively sensible error messages.

## Info ##

* [Changes](https://bitbucket.org/asomov/snakeyaml/wiki/Changes)
* [Documentation](https://bitbucket.org/asomov/snakeyaml/wiki/Documentation)

## Contribute ##

* Mercurial DVCS is used to dance with the [source code](https://bitbucket.org/asomov/snakeyaml/src).
* If you find a bug in SnakeYAML, please [file a bug report](https://bitbucket.org/asomov/snakeyaml/issues?status=new&status=open).
* You may discuss SnakeYAML at [the mailing list](http://groups.google.com/group/snakeyaml-core).

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1.258 elfutils 0.172 :2.el7.centos

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1.260 elfutils-libelf-devel 0.172-2

1.261 elfutils-libs 0.172 :2.el7
1.262 emacs 24.3-22

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--- update the copyright notice in current buffer


;; Author: Daniel Pfeiffer <occitan@esperanto.org>

;; Keywords: maint, tools

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;; Commentary:

;; Allows updating the copyright year and above mentioned GPL version manually
;; or when saving a file.

;; Do (add-hook 'before-save-hook 'copyright-update), or use
;; M-x customize-variable RET before-save-hook RET.

;; Code:
(defgroup copyright nil
"Update the copyright notice in current buffer."
:group 'tools)

(defcustom copyright-limit 2000
"Don't try to update copyright beyond this position unless interactive.
A value of nil means to search whole buffer."
:group 'copyright
:type (choice (integer :tag "Limit")
(const :tag "No limit")))

(defcustom copyright-at-end-flag nil
"Non-nil means to search backwards from the end of the buffer for copyright.
This is useful for ChangeLogs."
:group 'copyright
:type boolean
:version "23.1")

;;;###autoload(put 'copyright-at-end-flag 'safe-local-variable 'booleanp)

(defcustom copyright-regexp
"\(\|\@copyright{}\|\[Cc\]opyright\s *:?\s *\(?:(C)\)?\s *\(?:\[^0-9\n]*\s *\)?\s *\([1-9]\(\[-0-9, ';/*%#\n\t\]\|\s<\|\s>\)*[0-9]+\)"
"What your copyright notice looks like.
The second \( \) construct must match the years."
:group 'copyright
:type regexp)

(defcustom copyright-names-regexp
"
"Regexp matching the names which correspond to the user.
Only copyright lines where the name matches this regexp will be updated.
This allows you to avoid adding years to a copyright notice belonging to
someone else or to a group for which you do not work."
:group 'copyright
:type regexp)

;; The worst that can happen is a malicious regexp that overflows in
;; the regexp matcher, a minor nuisance. It's a pain to be always
;; prompted if you want to put this in a dir-locals.el.
;;;###autoload(put 'copyright-names-regexp 'safe-local-variable 'stringp)

(defcustom copyright-years-regexp
"\[\|\([1-9]\(\[-0-9, ';/*%#\n\t\]\|\s<\|\s>\)*[0-9]+\)"
"Match additional copyright notice years.
The second \[ \) construct must match the years."
:group 'copyright)
:type 'regexp)

;; See "Copyright Notices" in maintain.info.
;; TODO? 'end only for ranges at the end, other for all ranges.
;; Minimum limit on the size of a range?
(defcustom copyright-year-ranges nil
  "Non-nil if individual consecutive years should be replaced with a range.
If you use ranges, you should add an explanatory note in a README file.
The function `copyright-fix-years' respects this variable."
:group 'copyright
:type 'boolean
:version "24.1")

;;;###autoload(put 'copyright-year-ranges 'safe-local-variable 'booleanp)

(defcustom copyright-query 'function
  "If non-nil, ask user before changing copyright.
When this is `function', only ask when called non-interactively."
:group 'copyright
:type '(choice (const :tag "Do not ask")
(const :tag "Ask unless interactive" function)
(other :tag "Ask" t))

;; when modifying this, also modify the comment generated by autoinsert.el
(defconst copyright-current-gpl-version "3"
  "String representing the current version of the GPL or nil.")

(defvar copyright-update t
  "The function `copyright-update' sets this to nil after updating a buffer.")

;; This is a defvar rather than a defconst, because the year can
;; change during the Emacs session.
(defvar copyright-current-year (format-time-string "%Y")
  "String representing the current year.")

(defsubst copyright-limit ()            ; re-search-forward BOUND
  (and copyright-limit
    (if copyright-at-end-flag
      (- (point) copyright-limit)
      (+ (point) copyright-limit))))

(defun copyright-re-search (regexp &optional bound noerror count)
  "Re-search forward or backward depending on `copyright-at-end-flag'."
  (if copyright-at-end-flag
    (re-search-backward regexp bound noerror count)
    (re-search-forward regexp bound noerror count)))
(defun copyright-start-point ()
  "Return point-min or point-max, depending on `copyright-at-end-flag'."
  (if copyright-at-end-flag
      (point-max)
      (point-min)))

(defun copyright-offset-too-large-p ()
  "Return non-nil if point is too far from the edge of the buffer."
  (when copyright-limit
    (if copyright-at-end-flag
        (< (point) (- (point-max) copyright-limit))
      (> (point) (+ (point-min) copyright-limit)))))

(defun copyright-find-copyright ()
  "Return non-nil if a copyright header suitable for updating is found.
  The header must match `copyright-regexp' and `copyright-names-regexp', if set.
  This function sets the match-data that `copyright-update-year' uses."
  (widen)
  (goto-char (copyright-start-point))
  (condition-case err
      ;; (1) Need the extra \\( \) around copyright-regexp because we
      ;; goto (match-end 1) below. See note (2) below.
      ;; copyright-re-search (concat "\\(" copyright-regexp
      ;; "\\)\([ \\	]*\n\\).*\\(?:
      copyright-names-regexp series)"
        copyright-limit)
    t)
    ;; In case the regexp is rejected. This is useful because
    ;; copyright-update is typically called from before-save-hook where
    ;; such an error is very inconvenient for the user.
    (error (message "Can't update copyright: %s" err) nil))

(defun copyright-find-end ()
  "Possibly adjust the search performed by `copyright-find-copyright'.
  If the years continue onto multiple lines that are marked as comments,
  skips to the end of all the years."
  (while (save-excursion
      (and (eq (following-char) ?),)
    (progn (forward-char 1) t)
    (progn (skip-chars-forward " \t") (eolp))
    comment-start-skip
    (save-match-data
      (forward-line 1)
      (and (looking-at comment-start-skip)
        (goto-char (match-end 0))))))
  (looking-at-p copyright-years-regexp))
  (forward-line 1))
(re-search-forward comment-start-skip)
;; (2) Need the extra \( \) so that the years are subexp 3, as
;; they are at note (1) above.
(re-search-forward (format "\(%s\)" copyright-years-regexp)))

(defun copyright-update-year (replace noquery)
  ;; This uses the match-data from copyright-find-copyright/end.
  (goto-char (match-end 1))
  (copyright-find-end)
  (setq copyright-current-year (format-time-string "%Y"))
  (unless (string= (buffer-substring (- (match-end 3) 2) (match-end 3))
               (substring copyright-current-year -2))
    (if (or noquery
      (save-window-excursion
        (switch-to-buffer (current-buffer))
        ;; Fixes some point-moving oddness (bug#2209).
        (save-excursion
          (y-or-n-p (if replace
                        (concat "Replace copyright year(s) by "
                                copyright-current-year "? ")
                        (concat "Add " copyright-current-year
                                " to copyright? "))))))
      (if replace
        (replace-match copyright-current-year t t nil 3)
      (let ((size (save-excursion (skip-chars-backward "0-9"))))
        (if (and (eq (% (- (string-to-number copyright-current-year)
                       (string-to-number (buffer-substring
                                          (+ (point) size)
                                          (point))))
                       100) 1)
            (or (eq (char-after (+ (point) size -1)) ?-)
                (eq (char-after (+ (point) size -2)) ?-)))
          ;; This is a range so just replace the end part.
          (delete-char size)
          ;; Insert a comma with the preferred number of spaces.
          (insert
            (save-excursion
              (if (re-search-backward "[0-9]\([ \*, \]\)\([0-9]\]
                (line-beginning-position) t)
                (match-string 1)
                ", ")))
          ;; If people use the '91 '92 '93 scheme, do that as well.
          (if (eq (char-after (+ (point) size -3)) ?)
            (insert ?)))
          ;; Finally insert the new year.
          (insert (substring copyright-current-year size)))))))

---

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;;; autoload
(defun copyright-update (&optional arg interactivep)
  "Update copyright notice to indicate the current year.
With prefix ARG, replace the years in the notice rather than adding
the current year after them. If necessary, and
`copyright-current-gpl-version' is set, any copying permissions
following the copyright are updated as well.
If non-nil, INTERACTIVEP tells the function to behave as when it's called
interactively."

interactive "*P\nd"

(when (or copyright-update interactivep)
  (let ((noquery (or (not copyright-query)
                        (and (eq copyright-query 'function) interactivep)))
       (save-excursion
       (save-restriction
       ;; If names-regexp doesn't match, we should not mess with
       ;; the years _or_ the GPL version.
       ;; TODO there may be multiple copyrights we should update.
       (when (copyright-find-copyright)
         (copyright-update-year arg noquery)
         (goto-char (copyright-start-point))
         (and copyright-current-gpl-version
          ;; Match the GPL version comment in .el files.
          ;; This is sensitive to line-breaks. :(
          (copyright-re-search
           "the Free Software Foundation[,\n\n\%[0-9]\(+([0-9]+\)\(?: of the License\)?, or[ ]\n\%[0-9]+\)\( any later version"
           (copyright-limit) t)
          ;; Don't update if the file is already using a more recent
          ;; version than the "current" one.
          (< (string-to-number (match-string 1))
            (string-to-number copyright-current-gpl-version))
          (or noquery
            (save-match-data
             (goto-char (match-end 1))
             (save-window-excursion
              (switch-to-buffer (current-buffer)))
             (y-or-n-p
              (format "Replace GPL version %s with version %s? "
                        (match-string-no-properties 1)
                        copyright-current-gpl-version)))))
          (replace-match copyright-current-gpl-version t t nil 1)))))
  (set (make-local-variable 'copyright-update) nil)))

;;; FIXME heuristic should be within 50 years of present (cf calendar).
;;; autoload
(defun copyright-fix-years ()
"Convert 2 digit years to 4 digit years.
Uses heuristic: year >= 50 means 19xx, < 50 means 20xx.
If `copyright-year-ranges' (which see) is non-nil, also
independently replaces consecutive years with a range."
(interactive)
;; TODO there may be multiple copyrights we should fix.
(if (copyright-find-copyright)
  (let ((s (match-beginning 3))
        (p (make-marker))
        ;; Not line-beg-pos, so we don't mess up leading whitespace.
        (copystart (match-beginning 0))
        e last sep year prev-year first-year range-start range-end)
  ;; In case years are continued over multiple, commented lines.
  (goto-char (match-end 1))
  (copyright-find-end)
  (setq e (copy-marker (1+ (match-end 3))))
  (goto-char s)
  (while (re-search-forward "[0-9]+" e t)
    (set-marker p (point))
    (goto-char (match-beginning 0))
    (setq year (string-to-number (match-string 0)))
    (and (setq sep (char-before))
         (/= (char-syntax sep) ?\s)
         (/= sep ?\-)
         (insert " "))
    (when (< year 100)
      (insert (if (>= year 50) "19" "20"))
      (setq year (+ year (if (>= year 50) 1900 2000))))
    (goto-char p)
    (when copyright-year-ranges
      ;; If the previous thing was a range, don't try to tack more on.
      ;; TODO should merge into existing range if possible.
      (if (eq sep ?-)
        (setq prev-year nil
              year nil)
        (if (and prev-year (= year (1+ prev-year)))
          (setq range-end (point)))
        (when (and first-year prev-year
                     (> prev-year first-year))
          (goto-char range-end)
          (delete-region range-start range-end)
          (insert (format "-%d" prev-year))
          (goto-char p))
        (setq first-year year
              range-start (point))))))
additional copyright notice years. The second `\( \) construct must match the years. The function `copyright-fix-years' respects this variable. "24.1" copyright-query function "If non-nil, ask user before changing copyright. When this is 'function', only ask when called non-interactively." (choice (const :tag "Do not ask") (const :tag "Ask unless interactive" function) (other :tag "Ask" t))]

#@60 String representing the current version of the GPL or nil.
(defconst copyright-current-gpl-version "3" (#$ . 2656))

#@75 The function 'copyright-update' sets this to nil after updating a buffer.
(defvar copyright-update t (#$ . 2778))

#@39 String representing the current year.
(defvar copyright-current-year (format-time-string "%Y") (#$ . 2898))

(#defalias 'copyright-limit #\[nil "\205\r\t\f`Z\207`\\`\207" \[copyright-limit copyright-at-end-flag\] 2])

(#put 'copyright-limit 'byte-optimizer 'byte-compile-inline-expand)

(#defalias 'copyright-re-search #\[regexp &optional bound noerror count] "\203\305\t\n\f\$\207\306\t\n\f\$\207"
\[copyright-at-end-flag regexp bound noerror count re-search-backward re-search-forward\] 5 (#$ . 3189))

(#@70 Return point-min or point-max, depending on 'copyright-at-end-flag'.
(defalias 'copyright-start-point #\[nil "\203\d\207\e\207" \[copyright-at-end-flag\] 1 (#$ . 3479))

(#@65 Return non-nil if point is too far from the edge of the buffer.
(defalias 'copyright-offset-too-large-p #\[nil "\205\r\t\f`dZW\207`e\V\207" \[copyright-limit copyright-at-end-flag\] 3
\[copyright-find-end \(\)\(\[ \t\]*\n\)?*\(?:" \)\(\t\)\] 6 (#$ . 3653))

(#@218 Return non-nil if a copyright header suitable for updating is found.
The header must match `copyright-regexp' and `copyright-names-regexp', if set.
This function sets the match-data that `copyright-update-year' uses.
(defalias 'copyright-find-copyright #\[nil "\~\210\300\b\210\301\302\303\217\207"
\[copyright-start-point err (byte-code "\304\305\306\t\307\260\n\205\203`\nZ\202`\n\\310#\207"
\[copyright-regexp copyright-names-regexp copyright-limit copyright-at-end-flag copyright-re-search \("\( \)\(\[ \t\]*\n\)?*\(?:" \)\(\t\)\] 6) (error (message "Can't update copyright: %s" err) nil))]

(#@175 Possibly adjust the search performed by 'copyright-find-copyright'.
If the years continue onto multiple lines that are marked as comments,
skips to the end of all the years.
(defalias 'copyright-find-end #\[nil "\212g\305\s\306u\210\307\310w\210\307\311"
\[comment-start-skip save-match-data-internal copyright-years-regexp regexp inhibit-changing-match-data 44 1 "\n\[match-data (byte-code "\301\302"
\[\[set-match-data evaporate\] 3)) looking-at 0 t re-search-forward format \("\(\%s\)\)\] 6 (#$ . 4487))

(#@369 Update copyright notice to indicate the current year.
With prefix ARG, replace the years in the notice rather than adding
the current year after them. If necessary, and
`copyright-current-gpl-version' is set, any copying permissions
following the copyright are updated as well.
If non-nil, INTERACTIVEP tells the function to behave as when it's called
interactively.
(defalias 'copyright-update #[(&optional arg interactivep) "\204\205\207\n?\206\n\306=\205\212\214\307
\203~\310\f\"\210\311 b\210
\203~\312\313\205@\203<`Z\202@`\\\314#\203~\315\316\317!!\315
!W\203~\204v\320 \321\216\317\225b\210\322 \323\216\324p!\210\325\326\327\330\317!
#!,\203~\331
\314\211\332\317%\210)\333\300!\210\332*\332\207" [copyright-update interactivep copyright-query noquery arg
copyright-current-gpl-version function copyright-find-copyright copyright-update-year copyright-start-point
copyright-re-search "the Free Software Foundation[,;\n].*either version \\([0-9]+\\)\\(?: of the License\\)?, or[
\n].*any later version" t string-to-number match-string 1 match-data ((byte-code "\301\302\"\207" [save-match-datainternal set-match-data evaporate] 3)) current-window-configuration ((set-window-configuration #1=#:wconfig))
switch-to-buffer y-or-n-p format "Replace GPL version %s with version %s? " match-string-no-properties replacematch nil make-local-variable copyright-limit copyright-at-end-flag save-match-data-internal #1#] 6 (#$ . 6067)
"*P\nd"])
#@208 Convert 2 digit years to 4 digit years.
Uses heuristic: year >= 50 means 19xx, < 50 means 20xx.
If `copyright-year-ranges' (which see) is non-nil, also
independently replaces consecutive years with a range.
(defalias 'copyright-fix-years #[nil "\306 \203 \307\224\310
\311\224\312\211\211\211\211\211\211\211\"#$%&\313\225b\210\314
\210\315\307\225T!#&b\210\316\317#\320#\203\331%`\312\223\210\311\224b\210\321\322\311!!`Sf\211\203f
z\323U\204f
\324U\204f\325c\210\f\326W\203\207\f\327Y\203v\330\202w\331c\210\f\211\327Y\203\204\332\202\205\333\\%b
\210'\203\320
\324=\203\235\312\211\202\320\203\255\fTU\203\255`\202\320\n\203\314\203\314\nV\203\314b\210
|\210\334\335\"c\210%b\210\f`\f%\"\2025\"\203'\203\376\n\203\376\203\376\nV\203\376b\210
|\210\334\335\"c\210\"b\210\336\312x\210\214$`}\210\337ed\"\210)#\312\211\223\210%\312\211\223.\207\340\34
1!\207" [range-end range-start first-year prev-year year sep copyright-find-copyright 3 make-marker 0 nil 1
copyright-find-end copy-marker re-search-forward "[0-9]+" t string-to-number match-string 32 45 " " 100 50 "19"
"20" 1900 2000 format "-%d" " " fill-region message "No copyright message" last e copystart p s copyright-yearranges] 12 (#$ . 7556) nil])
(put 'copyright 'no-self-insert t)
#@558 Insert a copyright by $ORGANIZATION notice at cursor.
This is a skeleton command (see `skeleton-insert').
Normally the skeleton text is inserted at point, with nothing "inside".
If there is a highlighted region, the skeleton text is wrapped
around the region text.
A prefix argument ARG says to wrap the skeleton around the next ARG words.
A prefix argument of -1 says to wrap around region, even if not highlighted.
A prefix argument of zero says to wrap around zero words---that is, nothing.
This is a way of overriding the use of a highlighted region.
(defalias 'copyright #[(&optional str arg) "\302\303#\207" [str arg skeleton-proxy-new ("Company: " comment-start

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"Copyright (C) " (format-time-string "%Y") " by " (or (getenv "ORGANIZATION") str) (if (copyright-offset-too-large-p) (message "Copyright extends beyond `copyright-limit' and won't be updated automatically.") comment-end n) 4 (#$ . 8883) ""PnP")")
#@122 Update copyright notice for all files in DIRECTORY matching MATCH.
If FIX is non-nil, run `copyright-fix-years' instead.
(defalias 'copyright-update-directory #[(directory match &optional fix) "306/307
\310\310\211\205E@\311\204=\312/313/210/214/310/315/\210/307/203/216 \210/202/25/317 \210/320
\210/321p\210A\211/204
\310*207" [directory match file --dolist-tail-- enable-local-eval enable-local-variables directory-files t nil file-directory-p message "Updating file `%s' :safe find-file copyright-fix-years copyright-update save-buffer kill-buffer inhibit-read-only fix] 6 (#$ . 9815) "DDirectory: \nFilenames matching (regexp): "])
(provide 'copyright)

1.263 emacs 24.3 :22.el7
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Version 3, 29 June 2007

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@end enumerate

@end heading END OF TERMS AND CONDITIONS

@heading How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the `copyright` line and a pointer to where the full notice is found.

@smallexample
@var{one line to give the program's name and a brief idea of what it does.}  
Copyright (C) @var{year} @var{name of author}
@end smallexample

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see @url{http://www.gnu.org/licenses/}.

@end smallexample

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

@smallexample
@var{program} Copyright (C) @var{year} @var{name of author}
This program comes with ABSOLUTELY NO WARRANTY; for details type @samp{show w}.  
This is free software, and you are welcome to redistribute it under certain conditions; type @samp{show c} for details.
@end smallexample
The hypothetical commands `show w` and `show c` should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an ``about box''.

You should also get your employer (if you work as a programmer) or school, if any, to sign a ``copyright disclaimer'' for the program, if necessary. For more information on this, and how to apply and follow the GNU GPL, see @url{http://www.gnu.org/licenses/}.

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Why Software Should Be Free

by Richard Stallman

(Version of April 24, 1992)

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Introduction
***************

The existence of software inevitably raises the question of how decisions about its use should be made. For example, suppose one individual who has a copy of a program meets another who would like a copy. It is possible for them to copy the program; who should decide whether this is done? The individuals involved? Or another party, called the "owner"?

Software developers typically consider these questions on the assumption that the criterion for the answer is to maximize developers’ profits. The political power of business has led to the government adoption of both this criterion and the answer proposed by the developers: that the program has an owner, typically a corporation associated with its development.

I would like to consider the same question using a different criterion: the prosperity and freedom of the public in general.

This answer cannot be decided by current law--the law should conform to ethics, not the other way around. Nor does current practice decide this question, although it may suggest possible answers. The only way to judge is to see who is helped and who is hurt by recognizing owners of software, why, and how much. In other words, we should perform a cost-benefit analysis on behalf of society as a whole, taking account of individual freedom as well as production of material goods.

In this essay, I will describe the effects of having owners, and show that the results are detrimental. My conclusion is that programmers have the duty to encourage others to share, redistribute, study and improve the software we write: in other words, to write "free" software.(1)

How Owners Justify Their Power
***********************

Those who benefit from the current system where programs are property offer two arguments in support of their claims to own programs: the emotional argument and the economic argument.

The emotional argument goes like this: "I put my sweat, my heart, my soul into this program. It comes from *me*, it's *mine*!"

This argument does not require serious refutation. The feeling of attachment is one that programmers can cultivate when it suits them; it is not inevitable. Consider, for example, how willingly the same programmers usually sign over all rights to a large corporation for a
salary; the emotional attachment mysteriously vanishes. By contrast, consider the great artists and artisans of medieval times, who didn't even sign their names to their work. To them, the name of the artist was not important. What mattered was that the work was done—and the purpose it would serve. This view prevailed for hundreds of years.

The economic argument goes like this: "I want to get rich (usually described inaccurately as 'making a living'), and if you don't allow me to get rich by programming, then I won't program. Everyone else is like me, so nobody will ever program. And then you'll be stuck with no programs at all!" This threat is usually veiled as friendly advice from the wise.

I'll explain later why this threat is a bluff. First I want to address an implicit assumption that is more visible in another formulation of the argument.

This formulation starts by comparing the social utility of a proprietary program with that of no program, and then concludes that proprietary software development is, on the whole, beneficial, and should be encouraged. The fallacy here is in comparing only two outcomes—proprietary software vs. no software—and assuming there are no other possibilities.

Given a system of intellectual property, software development is usually linked with the existence of an owner who controls the software's use. As long as this linkage exists, we are often faced with the choice of proprietary software or none. However, this linkage is not inherent or inevitable; it is a consequence of the specific social/legal policy decision that we are questioning: the decision to have owners. To formulate the choice as between proprietary software vs. no software is begging the question.

The Argument against Having Owners
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The question at hand is, "Should development of software be linked with having owners to restrict the use of it?"

In order to decide this, we have to judge the effect on society of each of those two activities *independently*: the effect of developing the software (regardless of its terms of distribution), and the effect of restricting its use (assuming the software has been developed). If one of these activities is helpful and the other is harmful, we would be better off dropping the linkage and doing only the helpful one.

To put it another way, if restricting the distribution of a program already developed is harmful to society overall, then an ethical
software developer will reject the option of doing so.

To determine the effect of restricting sharing, we need to compare the value to society of a restricted (i.e., proprietary) program with that of the same program, available to everyone. This means comparing two possible worlds.

This analysis also addresses the simple counterargument sometimes made that "the benefit to the neighbor of giving him or her a copy of a program is cancelled by the harm done to the owner." This counterargument assumes that the harm and the benefit are equal in magnitude. The analysis involves comparing these magnitudes, and shows that the benefit is much greater.

To elucidate this argument, let's apply it in another area: road construction.

It would be possible to fund the construction of all roads with tolls. This would entail having toll booths at all street corners. Such a system would provide a great incentive to improve roads. It would also have the virtue of causing the users of any given road to pay for that road. However, a toll booth is an artificial obstruction to smooth driving--artificial, because it is not a consequence of how roads or cars work.

Comparing free roads and toll roads by their usefulness, we find that (all else being equal) roads without toll booths are cheaper to construct, cheaper to run, safer, and more efficient to use.(2) In a poor country, tolls may make the roads unavailable to many citizens. The roads without toll booths thus offer more benefit to society at less cost; they are preferable for society. Therefore, society should choose to fund roads in another way, not by means of toll booths. Use of roads, once built, should be free.

When the advocates of toll booths propose them as *merely* a way of raising funds, they distort the choice that is available. Toll booths do raise funds, but they do something else as well: in effect, they degrade the road. The toll road is not as good as the free road; giving us more or technically superior roads may not be an improvement if this means substituting toll roads for free roads.

Of course, the construction of a free road does cost money, which the public must somehow pay. However, this does not imply the inevitability of toll booths. We who must in either case pay will get more value for our money by buying a free road.

I am not saying that a toll road is worse than no road at all. That would be true if the toll were so great that hardly anyone used the
road—but this is an unlikely policy for a toll collector. However, as long as the toll booths cause significant waste and inconvenience, it is better to raise the funds in a less obstructive fashion.

To apply the same argument to software development, I will now show that having "toll booths" for useful software programs costs society dearly: it makes the programs more expensive to construct, more expensive to distribute, and less satisfying and efficient to use. It will follow that program construction should be encouraged in some other way. Then I will go on to explain other methods of encouraging and (to the extent actually necessary) funding software development.

The Harm Done by Obstructing Software
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Consider for a moment that a program has been developed, and any necessary payments for its development have been made; now society must choose either to make it proprietary or allow free sharing and use. Assume that the existence of the program and its availability is a desirable thing.(3)

Restrictions on the distribution and modification of the program cannot facilitate its use. They can only interfere. So the effect can only be negative. But how much? And what kind?

Three different levels of material harm come from such obstruction:

* Fewer people use the program.

* None of the users can adapt or fix the program.

* Other developers cannot learn from the program, or base new work on it.

Each level of material harm has a concomitant form of psychosocial harm. This refers to the effect that people's decisions have on their subsequent feelings, attitudes and predispositions. These changes in people's ways of thinking will then have a further effect on their relationships with their fellow citizens, and can have material consequences.

The three levels of material harm waste part of the value that the program could contribute, but they cannot reduce it to zero. If they waste nearly all the value of the program, then writing the program harms society by at most the effort that went into writing the program. Arguably a program that is profitable to sell must provide some net direct material benefit.
However, taking account of the concomitant psychosocial harm, there is no limit to the harm that proprietary software development can do.

Obstructing Use of Programs
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The first level of harm impedes the simple use of a program. A copy of a program has nearly zero marginal cost (and you can pay this cost by doing the work yourself), so in a free market, it would have nearly zero price. A license fee is a significant disincentive to use the program. If a widely-useful program is proprietary, far fewer people will use it.

It is easy to show that the total contribution of a program to society is reduced by assigning an owner to it. Each potential user of the program, faced with the need to pay to use it, may choose to pay, or may forego use of the program. When a user chooses to pay, this is a zero-sum transfer of wealth between two parties. But each time someone chooses to forego use of the program, this harms that person without benefiting anyone. The sum of negative numbers and zeros must be negative.

But this does not reduce the amount of work it takes to *develop* the program. As a result, the efficiency of the whole process, in delivered user satisfaction per hour of work, is reduced.

This reflects a crucial difference between copies of programs and cars, chairs, or sandwiches. There is no copying machine for material objects outside of science fiction. But programs are easy to copy; anyone can produce as many copies as are wanted, with very little effort. This isn't true for material objects because matter is conserved: each new copy has to be built from raw materials in the same way that the first copy was built.

With material objects, a disincentive to use them makes sense, because fewer objects bought means less raw materials and work needed to make them. It's true that there is usually also a startup cost, a development cost, which is spread over the production run. But as long as the marginal cost of production is significant, adding a share of the development cost does not make a qualitative difference. And it does not require restrictions on the freedom of ordinary users.

However, imposing a price on something that would otherwise be free is a qualitative change. A centrally-imposed fee for software distribution becomes a powerful disincentive.

What's more, central production as now practiced is inefficient even as a means of delivering copies of software. This system involves enclosing physical disks or tapes in superfluous packaging, shipping
large numbers of them around the world, and storing them for sale. This
cost is presented as an expense of doing business; in truth, it is part
of the waste caused by having owners.

Damaging Social Cohesion
========================

Suppose that both you and your neighbor would find it useful to run a
certain program. In ethical concern for your neighbor, you should feel
that proper handling of the situation will enable both of you to use it.
A proposal to permit only one of you to use the program, while
restraining the other, is divisive; neither you nor your neighbor should
find it acceptable.

Signing a typical software license agreement means betraying your
neighbor: "I promise to deprive my neighbor of this program so that I
can have a copy for myself.” People who make such choices feel
internal psychological pressure to justify them, by downgrading the
importance of helping one's neighbors--thus public spirit suffers.
This is psychosocial harm associated with the material harm of
discouraging use of the program.

Many users unconsciously recognize the wrong of refusing to share, so
they decide to ignore the licenses and laws, and share programs anyway.
But they often feel guilty about doing so. They know that they must
break the laws in order to be good neighbors, but they still consider
the laws authoritative, and they conclude that being a good neighbor
(which they are) is naughty or shameful. That is also a kind of
psychosocial harm, but one can escape it by deciding that these licenses
and laws have no moral force.

Programmers also suffer psychosocial harm knowing that many users
will not be allowed to use their work. This leads to an attitude of
cynicism or denial. A programmer may describe enthusiastically the
work that he finds technically exciting; then when asked, "Will I be
permitted to use it?", his face falls, and he admits the answer is no.
To avoid feeling discouraged, he either ignores this fact most of the
time or adopts a cynical stance designed to minimize the importance of
it.

Since the age of Reagan, the greatest scarcity in the United States
is not technical innovation, but rather the willingness to work together
for the public good. It makes no sense to encourage the former at the
expense of the latter.

Obstructing Custom Adaptation of Programs
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The second level of material harm is the inability to adapt programs. The ease of modification of software is one of its great advantages over older technology. But most commercially available software isn't available for modification, even after you buy it. It's available for you to take it or leave it, as a black box—that is all.

A program that you can run consists of a series of numbers whose meaning is obscure. No one, not even a good programmer, can easily change the numbers to make the program do something different.

Programmers normally work with the "source code" for a program, which is written in a programming language such as Fortran or C. It uses names to designate the data being used and the parts of the program, and it represents operations with symbols such as `+` for addition and `-` for subtraction. It is designed to help programmers read and change programs. Here is an example; a program to calculate the distance between two points in a plane:

```c
float
distance (p0, p1)
    struct point p0, p1;
{
    float xdist = p1.x - p0.x;
    float ydist = p1.y - p0.y;
    return sqrt (xdist * xdist + ydist * ydist);
}
```

Here is the same program in executable form, on the computer I normally use:

```
1314258944 -232267772 -231844864 1634862
1411907592 -231844736 2159150 1420296208
-234880989 -234879837 -234879966 -232295424
1644167167 -3214848 1090581031 1962942495
572518958 -803143692 1314803317
```

Source code is useful (at least potentially) to every user of a program. But most users are not allowed to have copies of the source code. Usually the source code for a proprietary program is kept secret by the owner, lest anybody else learn something from it. Users receive only the files of incomprehensible numbers that the computer will execute. This means that only the program's owner can change the program.

A friend once told me of working as a programmer in a bank for about six months, writing a program similar to something that was commercially available. She believed that if she could have gotten source code for that commercially available program, it could easily have been adapted
to their needs. The bank was willing to pay for this, but was not permitted to—the source code was a secret. So she had to do six months of make-work, work that counts in the GNP but was actually waste.

The MIT Artificial Intelligence lab (AI lab) received a graphics printer as a gift from Xerox around 1977. It was run by free software to which we added many convenient features. For example, the software would notify a user immediately on completion of a print job. Whenever the printer had trouble, such as a paper jam or running out of paper, the software would immediately notify all users who had print jobs queued. These features facilitated smooth operation.

Later Xerox gave the AI lab a newer, faster printer, one of the first laser printers. It was driven by proprietary software that ran in a separate dedicated computer, so we couldn't add any of our favorite features. We could arrange to send a notification when a print job was sent to the dedicated computer, but not when the job was actually printed (and the delay was usually considerable). There was no way to find out when the job was actually printed; you could only guess. And no one was informed when there was a paper jam, so the printer often went for an hour without being fixed.

The system programmers at the AI lab were capable of fixing such problems, probably as capable as the original authors of the program. Xerox was uninterested in fixing them, and chose to prevent us, so we were forced to accept the problems. They were never fixed.

Most good programmers have experienced this frustration. The bank could afford to solve the problem by writing a new program from scratch, but a typical user, no matter how skilled, can only give up.

Giving up causes psychosocial harm—to the spirit of self-reliance. It is demoralizing to live in a house that you cannot rearrange to suit your needs. It leads to resignation and discouragement, which can spread to affect other aspects of one's life. People who feel this way are unhappy and do not do good work.

Imagine what it would be like if recipes were hoarded in the same fashion as software. You might say, "How do I change this recipe to take out the salt?", and the great chef would respond, "How dare you insult my recipe, the child of my brain and my palate, by trying to tamper with it? You don't have the judgment to change my recipe and make it work right!"

"But my doctor says I'm not supposed to eat salt! What can I do? Will you take out the salt for me?"

"I would be glad to do that; my fee is only $50,000." Since the
owner has a monopoly on changes, the fee tends to be large. "However, right now I don't have time. I am busy with a commission to design a new recipe for ship's biscuit for the Navy Department. I might get around to you in about two years."

Obstructing Software Development
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The third level of material harm affects software development. Software development used to be an evolutionary process, where a person would take an existing program and rewrite parts of it for one new feature, and then another person would rewrite parts to add another feature; in some cases, this continued over a period of twenty years. Meanwhile, parts of the program would be "cannibalized" to form the beginnings of other programs.

The existence of owners prevents this kind of evolution, making it necessary to start from scratch when developing a program. It also prevents new practitioners from studying existing programs to learn useful techniques or even how large programs can be structured.

Owners also obstruct education. I have met bright students in computer science who have never seen the source code of a large program. They may be good at writing small programs, but they can't begin to learn the different skills of writing large ones if they can't see how others have done it.

In any intellectual field, one can reach greater heights by standing on the shoulders of others. But that is no longer generally allowed in the software field--you can only stand on the shoulders of the other people *in your own company*.

The associated psychosocial harm affects the spirit of scientific cooperation, which used to be so strong that scientists would cooperate even when their countries were at war. In this spirit, Japanese oceanographers abandoning their lab on an island in the Pacific carefully preserved their work for the invading U.S. Marines, and left a note asking them to take good care of it.

Conflict for profit has destroyed what international conflict spared. Nowadays scientists in many fields don't publish enough in their papers to enable others to replicate the experiment. They publish only enough to let readers marvel at how much they were able to do. This is certainly true in computer science, where the source code for the programs reported on is usually secret.

It Does Not Matter How Sharing Is Restricted
============================================
I have been discussing the effects of preventing people from copying, changing and building on a program. I have not specified how this obstruction is carried out, because that doesn't affect the conclusion. Whether it is done by copy protection, or copyright, or licenses, or encryption, or ROM cards, or hardware serial numbers, if it *succeeds* in preventing use, it does harm.

Users do consider some of these methods more obnoxious than others. I suggest that the methods most hated are those that accomplish their objective.

Software Should be Free
=======================

I have shown how ownership of a program--the power to restrict changing or copying it--is obstructive. Its negative effects are widespread and important. It follows that society shouldn't have owners for programs.

Another way to understand this is that what society needs is free software, and proprietary software is a poor substitute. Encouraging the substitute is not a rational way to get what we need.

Vaclav Havel has advised us to "Work for something because it is good, not just because it stands a chance to succeed." A business making proprietary software stands a chance of success in its own narrow terms, but it is not what is good for society.

Why People Will Develop Software
********************************

If we eliminate intellectual property as a means of encouraging people to develop software, at first less software will be developed, but that software will be more useful. It is not clear whether the overall delivered user satisfaction will be less; but if it is, or if we wish to increase it anyway, there are other ways to encourage development, just as there are ways besides toll booths to raise money for streets. Before I talk about how that can be done, first I want to question how much artificial encouragement is truly necessary.

Programming is Fun
==================

There are some lines of work that few will enter except for money; road construction, for example. There are other fields of study and art in which there is little chance to become rich, which people enter for their fascination or their perceived value to society. Examples
include mathematical logic, classical music, and archaeology; and political organizing among working people. People compete, more sadly than bitterly, for the few funded positions available, none of which is funded very well. They may even pay for the chance to work in the field, if they can afford to.

Such a field can transform itself overnight if it begins to offer the possibility of getting rich. When one worker gets rich, others demand the same opportunity. Soon all may demand large sums of money for doing what they used to do for pleasure. When another couple of years go by, everyone connected with the field will deride the idea that work would be done in the field without large financial returns. They will advise social planners to ensure that these returns are possible, prescribing special privileges, powers and monopolies as necessary to do so.

This change happened in the field of computer programming in the past decade. Fifteen years ago, there were articles on "computer addiction": users were "onlining" and had hundred-dollar-a-week habits. It was generally understood that people frequently loved programming enough to break up their marriages. Today, it is generally understood that no one would program except for a high rate of pay. People have forgotten what they knew fifteen years ago.

When it is true at a given time that most people will work in a certain field only for high pay, it need not remain true. The dynamic of change can run in reverse, if society provides an impetus. If we take away the possibility of great wealth, then after a while, when the people have readjusted their attitudes, they will once again be eager to work in the field for the joy of accomplishment.

The question, "How can we pay programmers?", becomes an easier question when we realize that it's not a matter of paying them a fortune. A mere living is easier to raise.

Funding Free Software

Institutions that pay programmers do not have to be software houses. Many other institutions already exist which can do this.

Hardware manufacturers find it essential to support software development even if they cannot control the use of the software. In 1970, much of their software was free because they did not consider restricting it. Today, their increasing willingness to join consortiums shows their realization that owning the software is not what is really important for them.

Universities conduct many programming projects. Today, they often
sell the results, but in the 1970s, they did not. Is there any doubt that universities would develop free software if they were not allowed to sell software? These projects could be supported by the same government contracts and grants which now support proprietary software development.

It is common today for university researchers to get grants to develop a system, develop it nearly to the point of completion and call that "finished", and then start companies where they really finish the project and make it usable. Sometimes they declare the unfinished version "free"; if they are thoroughly corrupt, they instead get an exclusive license from the university. This is not a secret; it is openly admitted by everyone concerned. Yet if the researchers were not exposed to the temptation to do these things, they would still do their research.

Programmers writing free software can make their living by selling services related to the software. I have been hired to port the GNU C compiler to new hardware, and to make user-interface extensions to GNU Emacs. (I offer these improvements to the public once they are done.) I also teach classes for which I am paid.

I am not alone in working this way; there is now a successful, growing corporation which does no other kind of work. Several other companies also provide commercial support for the free software of the GNU system. This is the beginning of the independent software support industry-an industry that could become quite large if free software becomes prevalent. It provides users with an option generally unavailable for proprietary software, except to the very wealthy.

New institutions such as the Free Software Foundation can also fund programmers. Most of the foundation's funds come from users buying tapes through the mail. The software on the tapes is free, which means that every user has the freedom to copy it and change it, but many nonetheless pay to get copies. (Recall that "free software" refers to freedom, not to price.) Some users order tapes who already have a copy, as a way of making a contribution they feel we deserve. The Foundation also receives sizable donations from computer manufacturers.

The Free Software Foundation is a charity, and its income is spent on hiring as many programmers as possible. If it had been set up as a business, distributing the same free software to the public for the same fee, it would now provide a very good living for its founder.

Because the Foundation is a charity, programmers often work for the Foundation for half of what they could make elsewhere. They do this because we are free of bureaucracy, and because they feel satisfaction in knowing that their work will not be obstructed from use. Most of
all, they do it because programming is fun. In addition, volunteers have written many useful programs for us. (Recently even technical writers have begun to volunteer.)

This confirms that programming is among the most fascinating of all fields, along with music and art. We don't have to fear that no one will want to program.

What Do Users Owe to Developers?
================================

There is a good reason for users of software to feel a moral obligation to contribute to its support. Developers of free software are contributing to the users' activities, and it is both fair and in the long term interest of the users to give them funds to continue.

However, this does not apply to proprietary software developers, since obstructionism deserves a punishment rather than a reward.

We thus have a paradox: the developer of useful software is entitled to the support of the users, but any attempt to turn this moral obligation into a requirement destroys the basis for the obligation. A developer can either deserve a reward or demand it, but not both.

I believe that an ethical developer faced with this paradox must act so as to deserve the reward, but should also entreat the users for voluntary donations. Eventually the users will learn to support developers without coercion, just as they have learned to support public radio and television stations.

What Is Software Productivity?
******************************

If software were free, there would still be programmers, but perhaps fewer of them. Would this be bad for society?

Not necessarily. Today the advanced nations have fewer farmers than in 1900, but we do not think this is bad for society, because the few deliver more food to the consumers than the many used to do. We call this improved productivity. Free software would require far fewer programmers to satisfy the demand, because of increased software productivity at all levels:

* Wider use of each program that is developed.

* The ability to adapt existing programs for customization instead of starting from scratch.
* Better education of programmers.

* The elimination of duplicate development effort.

Those who object to cooperation because it would result in the employment of fewer programmers, are actually objecting to increased productivity. Yet these people usually accept the widely-held belief that the software industry needs increased productivity. How is this?

"Software productivity" can mean two different things: the overall productivity of all software development, or the productivity of individual projects. Overall productivity is what society would like to improve, and the most straightforward way to do this is to eliminate the artificial obstacles to cooperation which reduce it. But researchers who study the field of "software productivity" focus only on the second, limited, sense of the term, where improvement requires difficult technological advances.

Is Competition Inevitable?

Is it inevitable that people will try to compete, to surpass their rivals in society? Perhaps it is. But competition itself is not harmful; the harmful thing is *combat*.

There are many ways to compete. Competition can consist of trying to achieve ever more, to outdo what others have done. For example, in the old days, there was competition among programming wizards--competition for who could make the computer do the most amazing thing, or for who could make the shortest or fastest program for a given task. This kind of competition can benefit everyone, *as long as* the spirit of good sportsmanship is maintained.

Constructive competition is enough competition to motivate people to great efforts. A number of people are competing to be the first to have visited all the countries on Earth; some even spend fortunes trying to do this. But they do not bribe ship captains to strand their rivals on desert islands. They are content to let the best person win.

Competition becomes combat when the competitors begin trying to impede each other instead of advancing themselves--when "Let the best person win" gives way to "Let me win, best or not." Proprietary software is harmful, not because it is a form of competition, but because it is a form of combat among the citizens of our society.

Competition in business is not necessarily combat. For example, when two grocery stores compete, their entire effort is to improve their own operations, not to sabotage the rival. But this does not demonstrate a
special commitment to business ethics; rather, there is little scope for combat in this line of business short of physical violence. Not all areas of business share this characteristic. Withholding information that could help everyone advance is a form of combat.

Business ideology does not prepare people to resist the temptation to combat the competition. Some forms of combat have been made banned with anti-trust laws, truth in advertising laws, and so on, but rather than generalizing this to a principled rejection of combat in general, executives invent other forms of combat which are not specifically prohibited. Society’s resources are squandered on the economic equivalent of factional civil war.

"Why Don't You Move to Russia?"

In the United States, any advocate of other than the most extreme form of laissez-faire selfishness has often heard this accusation. For example, it is leveled against the supporters of a national health care system, such as is found in all the other industrialized nations of the free world. It is leveled against the advocates of public support for the arts, also universal in advanced nations. The idea that citizens have any obligation to the public good is identified in America with Communism. But how similar are these ideas?

Communism as was practiced in the Soviet Union was a system of central control where all activity was regimented, supposedly for the common good, but actually for the sake of the members of the Communist party. And where copying equipment was closely guarded to prevent illegal copying.

The American system of intellectual property exercises central control over distribution of a program, and guards copying equipment with automatic copying protection schemes to prevent illegal copying.

By contrast, I am working to build a system where people are free to decide their own actions; in particular, free to help their neighbors, and free to alter and improve the tools which they use in their daily lives. A system based on voluntary cooperation, and decentralization.

Thus, if we are to judge views by their resemblance to Russian Communism, it is the software owners who are the Communists.

The Question of Premises

I make the assumption in this paper that a user of software is no less important than an author, or even an author's employer. In other
words, their interests and needs have equal weight, when we decide which course of action is best.

This premise is not universally accepted. Many maintain that an author's employer is fundamentally more important than anyone else. They say, for example, that the purpose of having owners of software is to give the author's employer the advantage he deserves--regardless of how this may affect the public.

It is no use trying to prove or disprove these premises. Proof requires shared premises. So most of what I have to say is addressed only to those who share the premises I use, or at least are interested in what their consequences are. For those who believe that the owners are more important than everyone else, this paper is simply irrelevant.

But why would a large number of Americans accept a premise which elevates certain people in importance above everyone else? Partly because of the belief that this premise is part of the legal traditions of American society. Some people feel that doubting the premise means challenging the basis of society.

It is important for these people to know that this premise is not part of our legal tradition. It never has been.

Thus, the Constitution says that the purpose of copyright is to "promote the progress of science and the useful arts." The Supreme Court has elaborated on this, stating in 'Fox Film vs. Doyal' that "The sole interest of the United States and the primary object in conferring the [copyright] monopoly lie in the general benefits derived by the public from the labors of authors."

We are not required to agree with the Constitution or the Supreme Court. (At one time, they both condoned slavery.) So their positions do not disprove the owner supremacy premise. But I hope that the awareness that this is a radical right-wing assumption rather than a traditionally recognized one will weaken its appeal.

Conclusion
**********

We like to think that our society encourages helping your neighbor; but each time we reward someone for obstructionism, or admire them for the wealth they have gained in this way, we are sending the opposite message.

Software hoarding is one form of our general willingness to disregard the welfare of society for personal gain. We can trace this disregard from Ronald Reagan to Jim Bakker, from Ivan Boesky to Exxon, from
failing banks to failing schools. We can measure it with the size of the homeless population and the prison population. The antisocial spirit feeds on itself, because the more we see that other people will not help us, the more it seems futile to help them. Thus society decays into a jungle.

If we don't want to live in a jungle, we must change our attitudes. We must start sending the message that a good citizen is one who cooperates when appropriate, not one who is successful at taking from others. I hope that the free software movement will contribute to this: at least in one area, we will replace the jungle with a more efficient system which encourages and runs on voluntary cooperation.

---------- Footnotes ----------

(1) The word "free" in "free software" refers to freedom, not to price; the price paid for a copy of a free program may be zero, or small, or (rarely) quite large.

(2) The issues of pollution and traffic congestion do not alter this conclusion. If we wish to make driving more expensive to discourage driving in general, it is disadvantageous to do this using toll booths, which contribute to both pollution and congestion. A tax on gasoline is much better. Likewise, a desire to enhance safety by limiting maximum speed is not relevant; a free access road enhances the average speed by avoiding stops and delays, for any given speed limit.

(3) One might regard a particular computer program as a harmful thing that should not be available at all, like the Lotus Marketplace database of personal information, which was withdrawn from sale due to public disapproval. Most of what I say does not apply to this case, but it makes little sense to argue for having an owner on the grounds that the owner will make the program less available. The owner will not make it *completely* unavailable, as one would wish in the case of a program whose use is considered destructive.

Copyright (C) 2007-2013 Free Software Foundation, Inc.
See the end of the file for license conditions.

NOTES ON COPYRIGHTS AND LICENSES

Some terminology:

A "copyright notice" consists of one or a few lines of this format: "Copyright (C) 2006, 2007 Free Software Foundation, Inc."

A "license notice" is a statement of permissions, and is usually much longer, eg the text "GNU Emacs is free software...".
Summary for the impatient:

1. Don't add code to Emacs written by someone other than yourself without thinking about the legal aspect. Even if the changes are trivial, consider if they combine with previous changes by the same author to make a non-trivial total. If so, make sure they have an assignment. If adding a whole file adjust the copyright statements in the file.

2. When installing code written by someone else, the ChangeLog entry should be in the name of the author of the code, not the person who installs it. Also use bzr commit's "--author" option. Do not install any of your own changes in the same commit.

3. With images, add the legal info to a README file in the directory containing the image.

4. If you add a lot of text to a previously trivial file that had no legal notices, consider if you should add a copyright statement.

5. Please don't just add an FSF copyright without checking that is the right thing to do.

Every non-trivial file distributed through the Emacs repository should be self-explanatory in terms of copyright and license. This includes files that are not distributed in Emacs releases (for example, the admin/ directory), because the whole Emacs repository is publicly available.

The definition of triviality is a little vague, but a rule of thumb is that any file with less than 15 lines of actual content is trivial. If a file is auto-generated (eg ldefs-boot.el) from another one in the repository, then it does not really matter about adding a copyright statement to the generated file.

Legal advice says that we could, if we wished, put a license notice even in trivial files, because copyright law in general looks at the overall work as a whole. It is not _necessary_ to do so, and rms prefers that we do not. This means one needs to take care that trivial files do not grow and become non-trivial without having a license added. NB consequently, if you add a lot of text to a small file, consider whether your changes have made the file worthy of a copyright notice, and if so, please add one.

It can be helpful to put a reminder comment at the start of a trivial
file, eg: "add a license notice if this grows to > 10 lines of code".

The years in the copyright notice should be updated every year (see file "years" in this directory). The PDF versions of reftcards etc should display copyright notices (an exception to the rule about "generated" files), but these can just display the latest year. The full list of years should be kept in comments in the source file. If these are distributed in the repository, check in a regenerated version when the tex files are updated.

Copyright changes should be propagated to any associated repositories (eg Gnus, MH-E), but I think in every case this happens automatically (?).

All README (and other such text files) that are non-trivial should contain copyright statements and GPL license notices, exactly as .el files do (see e.g. README in the top-level directory). Before 2007, we used a simple, short statement permitting copying and modification of the text, and provided legal notices were retained. In Feb 2007 we switched to the standard GPL text, on legal advice. Some older text files in etc/ should, however, keep their current licenses (see below for list).

For image files, the copyright and license details should be recorded in a README file in each directory with images. (Legal advice says that we need not add notices to each image file individually, if they allow for that.). It is recommended to use the word "convert" to describe the automatic process of changing an image from one format to another (http://lists.gnu.org/archive/html/emacs-devel/2007-02/msg00618.html).

When installing a file with an "unusual" license (after checking first it is ok), put a copy of the copyright and license in the file (if possible. It's ok if this makes the file incompatible with its original format, if it can still be used by Emacs), or in a README file in the relevant directory.

The vast majority of files are copyright FSF and distributed under the GPL. A few files (mainly related to language and charset support) are copyright AIST alone, or both AIST and FSF. (Contact Kenichi Handa with questions about legal issues in such files.) In all these cases, the copyright years in each file should be updated each year.

There are some exceptions to the points in the previous paragraph, and these are listed below for reference, together with any files where the copyright needs to be updated in "unusual" ways.

If you find any other such cases, please consult to check they are ok, and note them in this file. This includes missing copyright notices,
and "odd" copyright holders. In most cases, individual authors should not appear in copyright statements. Either the copyright has been assigned (check copyright.list) to the FSF (in which case the original author should be removed and the year(s) transferred to the FSF); or else it is possible the file should not be in Emacs at all (please report!).

Note that it seems painfully clear that one cannot rely on commit logs, or even ChangeLogs, for older changes. People often installed changes from others, without recording the true authorship.

[For reference, most of these points were established via email with rms, 2007/1, "Copyright years".

In March 2011, information on some files no longer included was removed. Consult older versions of this document if interested.]

```
lisp/version.el   # emacs-copyright
lib-src/ebrowse.c  # version
lib-src/etags.c    # print_version
lib-src/rcs2log    # Copyright
Cocoa/Emacs.base/Contents/Info.plist
Cocoa/Emacs.base/Contents/Resources/English.lproj/InfoPlist.strings
GNUstep/Emacs.base/Resources/Info-gnustep.plist
`set-copyright’ in admin.el will do all the above.
```

```
aclocal.m4
configure
m4/*.m4
- copyright FSF, with unlimited permission to copy, distribute and modify

lib/Makefile.in
- copyright FSF, with MIT-like license

build-aux/install-sh
- this file is copyright MIT, which is OK. Leave the copyright alone.

etc/refcards/*.tex
also update the `\def\year macro for the latest year.

etc/future-bug
- doesn’t need a humorless disclaimer, because Karl Fogel says we can consider it part of Emacs, and he has a blanker disclaimer for Emacs changes. (email to rgm "[Emacs-commit] emacs/etc future-bug", 2007028)

etc/letter.pbm,letter.xpm
```
- trivial, no notice needed.


etc/FTP, ORDERS
- trivial (at time of writing), no license needed

etc/GNU, INTERVIEW, LINUX-GNU, MOTIVATION, SERVICE, THE-GNU-PROJECT, WHY-FREE
rms: "These are statements of opinion or testimony. Their licenses should permit verbatim copying only. Please don't change the licenses that they have. They are distributed with Emacs but they are not part of Emacs."

eetc/HELLO
standard notices. Just a note that although the file itself is not really copyrightable, in the wider context of it being part of Emacs (and written by those with assignments), a standard notice is fine.

eetc/MAILINGLISTS
rms: simple license is fine for this file

leim/CXTERM-DIC/4Corner.tit, ARRAY30.tit, CCDOSPY.tit, ECDICT.tit, ETZY.tit, PY-b5.tit, Punct-b5.tit, Punct.tit, QI-b5.tit, QI.tit, SW.tit, TONEPY.tit, ZOZY.tit
- leave the copyrights alone.

leim/MISC-DIC/CTLau-b5.html, CTLau.html, cangjie-table.b5, cangjie-table.cns, pinyin.map, ziranma.cin
- leave the copyright alone.
Note that pinyin.map, ziranma.cin (and hence the generated leim/quail/PY.el, ZIRANMA.el) are under GPLv1 or later.

leim/SKK-DIC/SKK-JISYO.L
ja-dic/ja-dic.el
(the latter is auto-generated from the former). Leave the copyright alone.

lib-src/etags.c
Copyright information is duplicated in etc/ETAGS.README. Update that file too.

Until 2007 etags.c was described as being copyright FSF and Ken Arnold. After some investigation in Feb 2007, then to the best of our knowledge we believe that the original 1984 Emacs version was based on the version in BSD4.2. See for example this 1985 post from Ken Arnold:
<http://groups.google.com/group/mod.sources/browse_thread/thread/ffe5c55845a640a9>
I have received enough requests for the current source to ctags to post it. Here is the latest version (what will go out with
4.3, modulo any bugs fixed during the beta period). It is the 4.2 ctags with recognition of yacc and lex tags added.

See also a 1984 version of ctags (no copyright) posted to net.sources: <http://groups.google.com/group/net.sources/msg/a21b6c21be12a98d>
Version of etags.c in emacs-16.56 duplicates comment typos.

Accordingly, in Feb 2007 we added a 1984 copyright for the University of California and a revised BSD license. The terms of this require that the full license details be available in binary distributions - hence the file etc/ETAGS.README. The fact that the --version output just says "Copyright <year> FSF" is apparently OK from a legal point of view.

lisp/cedet/semantic/imenu.el
- See http://lists.gnu.org/archive/html/emacs-devel/2010-03/msg00410.html in which Eric Ludlam established that the remaining contributions from authors other than himself were negligible.

lisp/play/tetris.el
- no special rules about the copyright. We note here that we believe (2007/1) there is no problem with our use of the name "tetris" or the concept.
rms: "My understanding is that game rules as such are not copyrightable." <http://lists.gnu.org/archive/html/emacs-devel/2007-01/msg00960.html>
rms: Legal advice is that we are ok and need not worry about this.

lisp/net/tramp.el
- there are also copyrights in the body of the file. Update these too.

lwlib/
rms (2007/02/17): "lwlib is not assigned to the FSF; we don't consider it part of Emacs. [...] Therefore non-FSF copyrights are ok in lwlib."

NB don't change the GPL version used for lwlib .c and .h files (see below).

FSF copyrights should only appear in files which have undergone non-trivial cumulative changes from the original versions in the Lucid Widget Library. NB this means that if you make non-trivial changes to a file with no FSF copyright, you should add one. Also, if changes are reverted to the extent that a file becomes basically the same as the original version, the FSF copyright should be removed.

In my (rgm) opinion, as of Feb 2007, all the non-trivial files differ significantly from the original versions, with the exception of
lwlib-Xm.h. Most of the changes that were made to this file have subsequently been reverted. Therefore I removed the FSF copyright from this file (which is arguably too trivial to merit a notice anyway). I added FSF copyright to the following files which did not have them already: Makefile.in, lwlib-Xaw.c, lwlib-int.h (borderline), lwlib-utils.c (borderline), lwlib.c, lwlib.h.

Copyright years before the advent of public CVS in 2001 were those when I judged (from the CVS logs) that non-trivial amounts of change had taken place. I also adjusted the existing FSF years in xlwmenu.c, xlwmenu.h, and xlwmenuP.h on the same basis.

Note that until Feb 2007, the following files in lwlib were lacking notices: lwlib-int.h, lwlib.h, lwlib-Xaw.h, lwlib-Xlw.h, lwlib-utils.h

The following files did not list a Lucid copyright: xlwmenu.h, xlwmenuP.h.

To the best of our knowledge, all the code files in lwlib were originally part of the Lucid Widget Library, even if they did not say so explicitly. For example, they were all present in Lucid Emacs 19.1 in 1992. The exceptions are the two Xaw files, which did not appear till Lucid Emacs 19.9 in 1994. The file lwlib-Xaw.h is too trivial to merit a copyright notice, but would presumably have the same one as lwlib-Xaw.c. We have been unable to find a true standalone version of LWL, if there was such a thing, to check definitively.

To clarify the situation, in Feb 2007 we added Lucid copyrights and GPL notices to those files lacking either that were non-trivial, namely: lwlib-int.h, lwlib.h, xlwmenu.h, xlwmenuP.h. This represents our best understanding of the legal status of these files. We also clarified the notices in Makefile.in, which was originally the Makefile auto-generated from Lucid's Imakefile.

As of Feb 2007, the following files are considered too trivial for notices: lwlib-Xaw.h, lwlib-Xlw.h, lwlib-utils.h.

The version of lwlib/ first installed in Emacs seems to be the same as that used in Lucid Emacs 19.8 (released 6-sep-93); except the two Xaw files, which did not appear till Athena support was added in Lucid Emacs 19.9. In Lucid Emacs 19.1, all files were under GPLv1 or later, but by Lucid Emacs 19.8, lwlib.c and xlwmenu.c had been switched to v2 or later. These are the versions that were first installed in Emacs. So in GNU Emacs, these two files have been under v2 or later since 1994.

It seems that it was the intention of Lucid to use v1 or later (excepting the two files mentioned previously); so this is the license
we have used when adding notices to code that did not have notices originally. Although we have the legal right to switch to v2 or later, rms prefers that we do not do so.

doc/*/doclicense.texi
- leave the copyright alone in this imported file.

doc/*/texi - All manuals should be under GFDL (but see below), and should include a copy of it, so that they can be distributed separately. faq.texi has a different license, for some reason no-one can remember.

doc/misc/mh-e.texi is dual-licensed (GPL and GFDL) per agreement with FSF (reconfirmed by rms Aug 25 2008). Discussion with licensing@fsf.org starting on Thu, 07 Aug 2003 with subject: "[gnu.org #58812] Changing license of MH-E manual"

msdos/is_exec.c, sigaction.c - these files are copyright DJ Delorie. Leave the copyrights alone. Leave the Eli Zaretskii copyright in is_exec.c alone. See the msdos/README file for the legal history of these files.

msdos/sed*.inp - These files are copyright FSF and distributed under an MIT-like license.

oldXMenu/
Keep the "copyright.h" method used by X11, rather than moving the licenses into the files. Note that the original X10.h did not use copyright.h, but had an explicit notice, which we retain.

If you make non-trivial changes to a file which does not have an FSF notice, add one and a GPL notice (as per Activate.c). If changes to a file are reverted such that it becomes essentially the same as the original X11 version, remove the FSF notice and GPL.

Only the files which differ significantly from the original X11 versions should have FSF copyright and GPL notices. At time of writing (Feb 2007), this is: Activate.c, Create.c, Internal.c. I (rgm) established this by diffing the current files against those in X11R1, and when I found significant differences looking in the ChangeLog for the years they originated (the CVS logs are truncated before 1999). I therefore removed the FSF notices (added in 200x) from the other files. There are some borderline cases IMO: AddSel.c, InsSel.c,
XMakeAssoc.c, XMenu.h. For these I erred on the side of NOT adding FSF notices.

With regards to whether the files we have changed should have GPL added or not, rms says (2007-02-25, "oldXmenu issues"): 

It does not make much difference, because oldXmenu is obsolete except for use in Emacs (and it is not normally used in Emacs any more either).

So, to make things simple, please put our changes under the GPL.

insque.c had no copyright notice until 2005. The version of insque.c added to Emacs 1992-01-27 is essentially the same as insremque.c added to glic three days later by Roland McGrath, with an FSF copyright and GPL, but no ChangeLog entry:

<http://sources.redhat.com/cgi-bin/cvsweb.cgi/~checkout~/libc/misc/insremque.c?
rev=1.1&cvsroot=glibc>

To the best of his recollection, McGrath (who has a copyright assignment) was the author of this file (email from roland at frob.com to rms, 2007-02-23, "Where did insque.c come from?"). The FSF copyright and GPL in this file are therefore correct as far as we understand it.

Imakefile had no legal info in Feb 2007, but was obviously based on the X11 version (which also had no explicit legal info). As it was unused, I removed it. It would have the same MIT copyright as Makefile.in does now.

src/gmalloc.c
- contains numerous copyrights from the GNU C library. Leave them alone.

src/ndir.h
- see comments below. This file is OK to be released with Emacs 22, but we may want to revisit it afterwards.

** Some notes on resolved issues, for historical information only

etc/TERMS
rms: "surely written either by me or by ESR. (If you can figure out which year, I can probably tell you which.) Either way, we have papers for it." It was present in Emacs-16.56 (15-jul-85). rms: "Then I conclude it was written by me."

lisp/term/README
- had no copyright notice till Feb 2007. ChangeLog.3 suggests it was
written by Eric Raymond. When asked by rms on 14 Feb 2007 he said:

I don't remember writing it, but it reads like my prose and I believe I wrote the feature(s) it's describing. So I would have been the likeliest person to write it.

Odds are that I did, but I'm not certain.

Accordingly, FSF copyright was added.

src/unexhp9k800.c
- briefly removed due to legal uncertainly Jan-Mar 2007. The relevant assignment is under "hp9k800" in copyright.list. File was written by John V. Morris at HP, and disclaimed by the author and HP. So this file is public domain.

lisp/progmodes/python.el
Dave Love alerted us to a potential legal problem:

On consultation with a lawyer, we found there was no problem:

** Issues that are "fixed" for the release of Emacs 22, but we may wish to revisit later in more detail

admin/check-doc-strings
File says it's in the public domain, but that might not make it so.

etc/e/eterm-color.ti

src/ndir.h
On legal advice from Matt Norwood, the following comment was added to these files in Feb/Mar 2007:

The code here is forced by the interface, and is not subject to copyright, constituting the only possible expression of the algorithm in this format.

With the addition of this notice, these files are OK for the upcoming Emacs-22 release. Post-release, we can revisit this issue and possibly add a list of all authors who have changed these files. (details in email from Matt Norwood to rms, 2007/02/03).

src/s/aix3-2.h, hpux8.h, hpux9.h, irix5-0.h, netbsd.h, usg5-4-2.h
[note some of these have since been merged into other files]
- all these (not obviously trivial) files were missing copyrights
till Feb 2007, when FSF copyright was added. Matt Norwood advised:

For now, I think the best policy is to assume that we do have
assignments from the authors (I recall many of these header files
as having been originally written by rms), and to attach an FSF
copyright with GPL notice. We can amend this if and when we
complete the code audit. Any additions to these files by
non-assigned authors are arguably "de minimis" contributions to
Emacs: small changes or suggestions to a work that are subsumed in
the main authors' copyright in the entire work.

Here is my (rgm) take on the details of the above files:

? irix5-0.h
I would say started non-trivial (1993, jimb, heavily based
on irix4-0.h). A few borderline non-tiny changes since.

usg5-4-2.h
started non-trivial, but was heavily based on usg5-4.h, which was and is
copyright FSF. only tiny changes since installed.

aix3-2.h, hpux8.h, hpux9.h, netbsd.h
started trivial, grown in tiny changes.

netbsd.h:
Roland McGrath said to rms (2007/02/17): "I don't really remember
anything about it. If I put it in without other comment, then probably
I wrote it myself."

Someone might want to tweak the copyright years (for dates before
2001) that I used in all these files.

Note: erring on the side of caution, I also added notices to some
files I thought might be considered non-trivial (if one includes
comment) in s/:
aix4-1.h hpux10.h irix6-5.h
sol2.h

(everything with > 30 non-blank lines, which at least is _some_ kind of
system)

*** These are copyright issues that need not be fixed until after
Emacs 22 is released (though if they can be fixed before, that is
obviously good):
Is it OK to just `bzr remove` a file for legal reasons, or is something more drastic needed? A removed file is still available from the repository, if suitable options are applied. (This issue obviously does not affect a release).

rms: will ask lawyer

Make sure that all files with non-standard copyrights or licenses are noted in this file.

REMOVED etc/gnu.xpm, nt/icons/emacs21.ico, nt/icons/sink.ico
- Restore if find legal info. emacs21.ico is not due to Davenport.
Geoff Voelker checked but could not find a record of where it came from.

etc/images
Image files from GTK, Gnome are under GPLv2 (no "or later"?). RMS will contact image authors in regards to future switch to v3.

etc/TUTORIAL* (translations)
switch to GPL (see english TUTORIAL)
rms: "We can leave the TUTORIAL translations alone until their maintainers update them."
Can adapt short license text from end of GPL translations at:
http://www.gnu.org/licenses/translations.html
Only a few sentences around the license notice need changing from previous version.
Done: TUTORIAL.eo

*** These are copyright issues still to be addressed:

None known.

** NOTES ON RELICENSING TO GPL3

The EMACS_22_BASE branch was changed to GPLv3 (or later) 2007/07/25.

Some notes:

1. There are some files in the Emacs tree which are not part of Emacs (eg
those included from GnuLib). These are all copyright FSF and (at time of writing) GPL >= 2. rms says may as well leave the licenses of these alone (may import them from GnuLib again). These are:

GnuLib:
build-aux/compile
build-aux/config.guess
build-aux/config.sub
build-aux/decomp
build-aux/missing
build-aux/move-if-change
build-aux/snippet/_Noreturn.h
build-aux/snippet/argnonnull.h
build-aux/snippet/c++defs.h
build-aux/snippet/warn-on-use.h
doc/man/texinfo.tex
lib/*.[ch]
lib/gnu/lib.mk
src/gmalloc.c
src/termcap.c
src/tparam.c

Note _not_ included in the above are src/regex.{c,h} (rms: "That forked version is only in Emacs, so definitely relicense that."), and oldXMenu/insque.c (rms: "We wrote that specifically for Emacs, so definitely relicense that.").

2. The files that are copyright FSF and AIST, or AIST alone, should be and were updated, ditto the oldXMenu files with FSF copyright, and msdos/is_exec.c and sigaction.c.

3. lwlib/

Files originally in Lucid Widget Library were left alone (excludes ChangeLog, etc), ie remain under GPL v1 or later, or v2 or later. (rms: "We may as well leave this alone, since we are never going to change it much.")

4. There are some files where the FSF holds no copyright. These were left alone:

leim/MISC-DIC/CTLau-b5.html  >= v2
leim/MISC-DIC/CTLau.html     >= v2
(above included in lisp/international/titdic-cnvl.el)
leim/MISC-DIC/pinyin.map     >= v1
leim/MISC-DIC/ziranma.cin    >= v1
leim/SKK-DIC/SKK-JISYO.L     >= v2
leim/SKK-DIC/README          >= v2
leim/ja-dic/ja-dic.el >= v2

5. At time of writing, some non-Emacs icons included from Gnome remain under GPLv2 (no "or later"). See:

/etc/images/gnus/README
/etc/images/mail/README
/etc/images/README
/nt/icons/README

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<!doctype HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN" >
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8">
<meta http-equiv="Content-Language" content="en-us">
<meta name="VI60_defaultClientScript" content="JavaScript">
<meta name="GENERATOR" content="Microsoft FrontPage 5.0">
<meta name="keywords" content="Unicode Standard, copyright">
<meta name="ProgId" content="FrontPage.Editor.Document">
<title>Unicode Terms of Use</title>
<link rel="stylesheet" type="text/css" href="http://www.unicode.org/webscripts/standard_styles.css">
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<table cellspacing="0" cellpadding="0" border="0" id="table2">
<tr><td><a href="http://www.unicode.org/copyright.html"><img src="http://www.unicode.org/img/hb_notice.gif" border="0" alt="Access to Copyright and terms of use" width="216" height="50"></a></td></tr>
</table>

<script language="Javascript" type="text/javascript" src="http://www.unicode.org/webscripts/lastModified.js"></script>

</center></table>

</div>

</td></tr>
</table>
</body>
</html>

;; copyright.el --- update the copyright notice in current buffer


;; Author: Daniel Pfeiffer <occitan@esperanto.org>
;; Keywords: maint, tools

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Commentary:

Allows updating the copyright year and above mentioned GPL version manually
or when saving a file.
Do (add-hook 'before-save-hook 'copyright-update), or use
M-x customize-variable RET before-save-hook RET.

Code:

(setq copyright-limit 2000
"Don't try to update copyright beyond this position unless interactive.
A value of nil means to search whole buffer."
:type '(choice (integer :tag "Limit")
(const :tag "No limit")))

(setq copyright-at-end-flag nil
"Non-nil means to search backwards from the end of the buffer for copyright.
This is useful for ChangeLogs."
:type 'boolean
:version "23.1")

(setq copyright-regexp
"\(\|\@copyright{}\|\[Cc\]opyright\s *:?\s *\(?:(C)\)?\|
\[Cc\]opyright\s *:?\s *\)
\s *\(?:[^0-9
\s]*\s *\)?\n\([1-9]\([^0-9,;/*%#\s<\s>\)*\[0-9\]+\)"
"What your copyright notice looks like.
The second \((\ \) construct must match the years."
(defcustom copyright-names-regexp ""
"Regexp matching the names which correspond to the user. Only copyright lines where the name matches this regexp will be updated. This allows you to avoid adding years to a copyright notice belonging to someone else or to a group for which you do not work."
:type 'regexp)

;; The worst that can happen is a malicious regexp that overflows in ;; the regexp matcher, a minor nuisance. It's a pain to be always ;; prompted if you want to put this in a dir-locals.el.
;;###autoload(put 'copyright-names-regexp 'safe-local-variable 'stringp)

(defcustom copyright-years-regexp "\(\s *\)\([1-9]\(\[-0-9, ';//*%#\n\t\]\\|\\s<\\|\\s>\)*[0-9]+\)"
"Match additional copyright notice years. The second \( \) construct must match the years."
:type 'regexp)

;; See "Copyright Notices" in maintain.info.
;; TODO? 'end only for ranges at the end, other for all ranges.
;; Minimum limit on the size of a range?
(defcustom copyright-year-ranges nil
"Non-nil if individual consecutive years should be replaced with a range. For example: 2005, 2006, 2007, 2008 might be replaced with 2005-2008. If you use ranges, you should add an explanatory note in a README file. The function `copyright-fix-years' respects this variable."
:type 'boolean
:version "24.1")

;;###autoload(put 'copyright-year-ranges 'safe-local-variable 'booleanp)

(defcustom copyright-query 'function
"If non-nil, ask user before changing copyright. When this is `function', only ask when called non-interactively."
:type 'choice (const :tag "Do not ask")
(const :tag "Ask unless interactive" function)
(other :tag "Ask" t))

;; when modifying this, also modify the comment generated by autoinsert.el
(deffconst copyright-current-gpl-version "3"
"String representing the current version of the GPL or nil.")

(defvar copyright-update t
  "The function 'copyright-update' sets this to nil after updating a buffer.")

;; This is a defvar rather than a defconst, because the year can
;; change during the Emacs session.
(defvar copyright-current-year (format-time-string "%Y")
  "String representing the current year.")

(defsubst copyright-limit () ; re-search-forward BOUND
  (and copyright-limit
    (if copyright-at-end-flag
      (- (point) copyright-limit)
      (+ (point) copyright-limit))))

(defun copyright-re-search (regexp &optional bound noerror count)
  "Re-search forward or backward depending on `copyright-at-end-flag'."
  (if copyright-at-end-flag
    (re-search-backward regexp bound noerror count)
    (re-search-forward regexp bound noerror count)))

(defun copyright-start-point ()
  "Return point-min or point-max, depending on `copyright-at-end-flag'."
  (if copyright-at-end-flag
    (point-max)
    (point-min)))

(defun copyright-offset-too-large-p ()
  "Return non-nil if point is too far from the edge of the buffer."
  (when copyright-limit
    (if copyright-at-end-flag
      (≤ (point) (- (point-max) copyright-limit))
      (> (point) (+ (point-min) copyright-limit)))))

(defun copyright-find-copyright ()
  "Return non-nil if a copyright header suitable for updating is found.
  The header must match `copyright-regexp' and `copyright-names-regexp', if set.
  This function sets the match-data that `copyright-update-year' uses."
  (widen)
  (goto-char (copyright-start-point))
  (condition-case err
    ;; (1) Need the extra \( \) around copyright-regexp because we
    ;; goto (match-end 1) below. See note (2) below.
    (copyright-re-search (concat \( \) copyright-regexp
      "\\\(.*\\)*\)/\(.*\\)" copyright-names-regexp "\)#")
    copyright-limit)
 ;; In case the regexp is rejected. This is useful because
 ;; copyright-update is typically called from before-save-hook where
 ;; such an error is very inconvenient for the user.
 (error (message "Can't update copyright: %s" err) nil))

(defun copyright-find-end ()
  "Possibly adjust the search performed by `copyright-find-copyright'.
If the years continue onto multiple lines that are marked as comments,
skips to the end of all the years."
  (while (save-excursion
    (and (eq (following-char) ?),)
    (progn (forward-char 1) t)
    (progn (skip-chars-forward " 	") (eolp))
    (save-match-data
      (forward-line 1)
      (and (looking-at comment-start-skip)
        (goto-char (match-end 0)))
    (looking-at-p copyright-years-regexp))
  (forward-line 1)
  (re-search-forward comment-start-skip)
  ;; (2) Need the extra \( \) so that the years are subexp 3, as
  ;; they are at note (1) above.
  (re-search-forward (format "\(\%s\)" copyright-years-regexp))))

(defun copyright-update-year (replace noquery)
  ;; This uses the match-data from copyright-find-copyright/end.
  (goto-char (match-end 1))
  (copyright-find-end)
  (setq copyright-current-year (format-time-string "%Y"))
  (unless (string= (buffer-substring (- (match-end 3) 2) (match-end 3))
    (substring copyright-current-year -2))
  (if (or noquery
    (save-window-excursion
      (switch-to-buffer (current-buffer))
    ;; Fixes some point-moving oddness (bug#2209).
      (save-excursion
        (y-or-n-p (if replace
          (concat "Replace copyright year(s) by "
          copyright-current-year "? ")
        (concat "Add " copyright-current-year
          " to copyright? ")))))
  (if replace
    (replace-match copyright-current-year t t nil 3)
  (let ((size (save-excursion (skip-chars-backward "0-9"))))
    (if (and (eq (%) (- (string-to-number copyright-current-year)
      (string-to-number (buffer-substring
(delete-char size)
;; Insert a comma with the preferred number of spaces.
(insert
(save-excursion
(if (re-search-backward "[0-9]\( *, *\)[0-9]" (line-beginning-position) t)
(match-string 1)
".
")
;; If people use the '91 '92 '93 scheme, do that as well.
(if (eq (char-after (+ (point) size -3)) ?')
(insert ?'))
;; Finally insert the new year.
(insert (substring copyright-current-year size))))))

;;;;autoload
(defun copyright-update (&optional arg interactivep)
"Update copyright notice to indicate the current year.
With prefix ARG, replace the years in the notice rather than adding
the current year after them. If necessary, and
'copyright-current-gpl-version' is set, any copying permissions
following the copyright are updated as well.
If non-nil, INTERACTIVEP tells the function to behave as when it's called
interactively."
(interactive "*P\nd")
(when (or copyright-update interactivep)
(let ((noquery (or (not copyright-query)
(and (eq copyright-query 'function) interactivep)))))
(save-excursion
(save-restriction
;; If names-regexp doesn't match, we should not mess with
;; the years _or_ the GPL version.
;; TODO there may be multiple copyrights we should update.
(when (copyright-find-copyright)
(copyright-update-year arg noquery)
(goto-char (copyright-start-point))
(and copyright-current-gpl-version
;; Match the GPL version comment in .el files.
;; This is sensitive to line-breaks. :(
(copyright-re-search
"the Free Software Foundation\,[;\n]*either version \"\\([0-9]+\\)\\("; of the License\)\?, or\[;\n]*any later version"
; Don't update if the file is already using a more recent
; version than the "current" one.
(< (string-to-number (match-string 1))
  (string-to-number copyright-current-gpl-version))
(or noquery
  (save-match-data
    (goto-char (match-end 1))
    (save-window-excursion
      (switch-to-buffer (current-buffer))
      (y-or-n-p
        (format "Replace GPL version %s with version %s? "
          (match-string-no-properties 1)
          copyright-current-gpl-version))))
  (replace-match copyright-current-gpl-version t t nil 1)))
(set (make-local-variable 'copyright-update) nil))

;; FIXME heuristic should be within 50 years of present (cf calendar).
;;###autoload
(defun copyright-fix-years ()
  "Convert 2 digit years to 4 digit years.
Uses heuristic: year >= 50 means 19xx, < 50 means 20xx.
If \`copyright-year-ranges\' (which see) is non-nil, also
independently replaces consecutive years with a range."
(interactive)
;; TODO there may be multiple copyrights we should fix.
(if (copyright-find-copyright)
  (let ((s (match-beginning 3))
    (p (make-marker))
    ;; Not line-beg-pos, so we don't mess up leading whitespace.
    (copystart (match-beginning 0))
    e last sep year prev-year first-year range-start range-end)
  ;; In case years are continued over multiple, commented lines.
  (goto-char (match-end 1))
  (copyright-find-end)
  (setq e (copy-marker (1+ (match-end 3)))))
  (goto-char s)
  (while (re-search-forward "[0-9]+" e t)
    (set-marker p (point))
    (goto-char (match-beginning 0))
    (setq year (string-to-number (match-string 0)))
    (and (setq sep (char-before))
      (/= (char-syntax sep) ?\s)
      (/= sep ?-)
      (insert ")
    ))

(when (< year 100)
  (insert (if (>= year 50) "19" "20"))
  (setq year (+ year (if (>= year 50) 1900 2000)))
  (goto-char p)
)(when copyright-year-ranges
  ;; If the previous thing was a range, don't try to tack more on.
  ;; TODO should merge into existing range if possible.
  (if (eq q sep ?-)
      (setq prev-year nil
            year nil)
    (if (and prev-year (= year (1+ prev-year)))
        (setq range-end (point))
      (when (and first-year prev-year
             (> prev-year first-year))
        (goto-char range-end)
        (delete-region range-start range-end)
        (insert (format "-%d" prev-year))
        (goto-char p))
      (setq first-year year
            range-start (point)))
    (setq prev-year year
          last p))
  (when last
    (when (and copyright-year-ranges
               first-year prev-year
               (> prev-year first-year))
      (goto-char range-end)
      (delete-region range-start range-end)
      (insert (format "-%d" prev-year))
      (goto-char last))
  ;; Don't mess up whitespace after the years.
  (skip-chars-backward "\t")
  (save-restriction
    (narrow-to-region copystart (point))
    ;; This is clearly wrong, eg what about comment markers?
    ;; (let ((fill-prefix "   "))
    ;; TODO do not break copyright owner over lines.
    (fill-region (point-min) (point-max)))
  (set-marker e nil)
  (set-marker p nil))
  ;; Simply reformatting the years is not copyrightable, so it does
  ;; not seem right to call this. Also it messes with ranges.
  ;; (copyright-update nil t))
  (message "No copyright message")))

;;;####autoload
(define-skeleton copyright
"Insert a copyright by $ORGANIZATION notice at cursor."
"Company: "

(comment-start
"Copyright (C) " `(format-time-string "%Y") " by "
(or (getenv "ORGANIZATION")
str)
'(if (copyright-offset-too-large-p)
   (message "Copyright extends beyond `copyright-limit' and won't be updated automatically.")
)
(comment-end \n)

;; TODO: recurse, exclude COPYING etc.
;;;;autoload
(defun copyright-update-directory (directory match &optional fix)
"Update copyright notice for all files in DIRECTORY matching MATCH.
If FIX is non-nil, run `copyright-fix-years' instead."
(interactive "DDirectory: \nMFilenames matching (regexp): ")
(dolist (file (directory-files directory t match nil))
  (unless (file-directory-p file)
    (message "Updating file `%s'" file)
    ;; FIXME we should not use find-file+save+kill.
    (let ((enable-local-variables :safe)
          (enable-local-eval nil))
      (find-file file))
    (let ((inhibit-read-only t))
      (if fix
          (copyright-fix-years)
          (copyright-update)))
    (save-buffer)
    (kill-buffer (current-buffer))))

(provide 'copyright)

;; For the copyright sign:
;; Local Variables:
;; coding: utf-8
;; End:

;;; copyright.el ends here
:ELC
;;; Compiled by gm@skiddaw on Fri Mar 8 00:17:33 2013
;;; from file /misc/emacs/bzr/emacs24-merge/lisp/emacs-lisp/copyright.el
;;; in Emacs version 24.3.1
;;; with all optimizations.

;;; This file contains utf-8 non-ASCII characters,
;;; and so cannot be loaded into Emacs 22 or earlier.
(and (boundp 'emacs-version)
  (< (aref emacs-version (1- (length emacs-version))) ?A)
)
(string-lessp emacs-version "23")
(error "'%s' was compiled for Emacs 23 or later" #$))

(put 'copyright-limit 'byte-optimizer 'byte-compile-inline-expand)
(put 'copyright-offset-too-large-p 'byte-optimizer 'byte-compile-inline-expand)
(put 'copyright-find-copyright 'byte-optimizer 'byte-compile-inline-expand)
(put 'copyright-re-search 'byte-optimizer 'byte-compile-inline-expand)
(put 'copyright-start-point 'byte-optimizer 'byte-compile-inline-expand)
(put 'copyright-re-search-forward 'byte-optimizer 'byte-compile-inline-expand)
(put 'copyright-re-search-backward 'byte-optimizer 'byte-compile-inline-expand)
(put 'copyright-update 'byte-optimizer 'byte-compile-inline-expand)
(put 'copyright-update-year 'byte-optimizer 'byte-compile-inline-expand)
(put 'copyright-update-section 'byte-optimizer 'byte-compile-inline-expand)
(put 'copyright-update-last 'byte-optimizer 'byte-compile-inline-expand)
(put 'copyright-update-section-last 'byte-optimizer 'byte-compile-inline-expand)
(put 'copyright-update-direct 'byte-optimizer 'byte-compile-inline-expand)
(put 'copyright-update-target 'byte-optimizer 'byte-compile-inline-expand)
(put 'copyright-update-section-target 'byte-optimizer 'byte-compile-inline-expand)
(put 'copyright-update-section-direct 'byte-optimizer 'byte-compile-inline-expand)
(put 'copyright-update-section-target-direct 'byte-optimizer 'byte-compile-inline-expand)
(put 'copyright-update-section-direct-target 'byte-optimizer 'byte-compile-inline-expand)
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(put 'copyright-update-section-direct-target-direct-target-direct-target-direct 'byte-optimizer 'byte-compile-inline-expand)
(put 'copyright-update-section-direct-target-direct-target-direct-target-direct-target 'byte-optimizer 'byte-compile-inline-expand)
copyright-limit copyright-at-end-flag copyright-re-search "\\(" "\\)\\([ ]*\n\\)?.*\\(?:" "\\)" t] 6) ((error (message
"Can't update copyright: %s" err) nil))] 3 (#$ . 3862)])
#@175 Possibly adjust the search performed by `copyright-find-copyright'.
If the years continue onto multiple lines that are marked as comments,
skips to the end of all the years.
(defalias 'copyright-find-end #[nil "\212g\305=\2053\306u\210\307\310w\210l\2053\2053\311
\312\216\306y\210\313!\205'\314\225b*\2053\n\315\313!*)\205H\306y\210\316!\210\316\317\320\n\"!\210\202\20
7" [comment-start-skip save-match-data-internal copyright-years-regexp regexp inhibit-changing-match-data 44 1 "
" nil match-data ((byte-code "\301\302\"\207" [save-match-data-internal set-match-data evaporate] 3)) looking-at 0 t
re-search-forward format "\\(%s\\)"] 4 (#$ . 4487)])
(defalias 'copyright-update-year #[(replace noquery) "\305\225b\210\306
\210\307\310!\311\225\312Z\311\225{\313\314O\230?\205\247\204>\315
\316\216\317p!\210\212\320\2035\321\322Q\2029\323\324Q!+\205\247\203J\325\326\211\314\311%\207\212\327\
314x)\330!\330`\f\\`{!Z\331\246\305=\203\332`\f\333#f\334=\204x\332`\f\313#f\334=\203\335\f!\210\202\241\212\
336\337\340 \326#\203\217\341\305!\202\220\342)c\210\332`\f\343#f\344=\203\241\344c\210\f\314Oc)\207"
[copyright-current-year noquery #1=#:wconfig replace size 1 copyright-find-end format-time-string "%Y" 3 2 -2 nil
current-window-configuration ((set-window-configuration #1#)) switch-to-buffer y-or-n-p "Replace copyright
year(s) by " "? " "Add " " to copyright? " replace-match t "0-9" string-to-number 100 + -1 45 delete-char re-searchbackward "[0-9]\\( *, *\\)[0-9]" line-beginning-position match-string ", " -3 39] 6])
#@369 Update copyright notice to indicate the current year.
With prefix ARG, replace the years in the notice rather than adding
the current year after them. If necessary, and
`copyright-current-gpl-version' is set, any copying permissions
following the copyright are updated as well.
If non-nil, INTERACTIVEP tells the function to behave as when it's called
interactively.
(defalias 'copyright-update #[(&optional arg interactivep) "\204\205\207\n?\206\n\306=\205\212\214\307
\203~\310\f\"\210\311 b\210
\203~\312\313\205@\203<`Z\202@`\\\314#\203~\315\316\317!!\315
!W\203~\204v\320 \321\216\317\225b\210\322 \323\216\324p!\210\325\326\327\330\317!
#!,\203~\331
\314\211\332\317%\210)\333\300!\210\332*\332\207" [copyright-update interactivep copyright-query noquery arg
copyright-current-gpl-version function copyright-find-copyright copyright-update-year copyright-start-point
copyright-re-search "the Free Software Foundation[,;\n].*either version \\([0-9]+\\)\\(?: of the License\\)?, or[
\n].*any later version" t string-to-number match-string 1 match-data ((byte-code "\301\302\"\207" [save-match-datainternal set-match-data evaporate] 3)) current-window-configuration ((set-window-configuration #1=#:wconfig))
switch-to-buffer y-or-n-p format "Replace GPL version %s with version %s? " match-string-no-properties replacematch nil make-local-variable copyright-limit copyright-at-end-flag save-match-data-internal #1#] 6 (#$ . 6067)
"*P\nd"])
#@208 Convert 2 digit years to 4 digit years.
Uses heuristic: year >= 50 means 19xx, < 50 means 20xx.
If `copyright-year-ranges' (which see) is non-nil, also
independently replaces consecutive years with a range.
(defalias 'copyright-fix-years #[nil "\306 \203 \307\224\310
\311\224\312\211\211\211\211\211\211\211\"#$%&\313\225b\210\314
\210\315\307\225T!#&b\210\316\317#\320#\203\331%`\312\223\210\311\224b\210\321\322\311!!`Sf\211\203f
z\323U\204f
\324U\204f\325c\210\f\326W\203\207\f\327Y\203v\330\202w\331c\210\f\211\327Y\203\204\332\202\205\333\\%b

Open Source Used In Application Centric Infrastructure Service Engine (ACI-SE) 1.1
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This is a skeleton command (see `skeleton-insert').
Normally the skeleton text is inserted at point, with nothing "inside".
If there is a highlighted region, the skeleton text is wrapped around the region text.

A prefix argument ARG says to wrap the skeleton around the next ARG words.
A prefix argument of -1 says to wrap around region, even if not highlighted.
A prefix argument of zero says to wrap around zero words—that is, nothing.
This is a way of overriding the use of a highlighted region.

(defun copyright &optional str arg)
  "#\(Company: " comment-start
  "Copyright (C) " (format-time-string "%Y") " by " (or (getenv "ORGANIZATION") str)'(if (copyright-offset-too-large-p) (message "Copyright extends beyond `copyright-limit' and won't be updated automatically.")) comment-end"

(defun copyright-update-directory &optional fix)
  "Updating file `%s': safe find-file copyright-fix-years copyright-update save-buffer kill-buffer inhibit-read-only fix] 6 (#$ . 9815) "DDirectory: \uMFilenames matching (regexp): ")

(provide 'copyright)
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A "license notice" is a statement of permissions, and is usually much longer, eg the text "GNU Emacs is free software...".

Summary for the impatient:

1. Don't add code to Emacs written by someone other than yourself without thinking about the legal aspect. Even if the changes are trivial, consider if they combine with previous changes by the same author to make a non-trivial total. If so, make sure they have an assignment. If adding a whole file adjust the copyright statements in the file.

2. When installing code written by someone else, the ChangeLog entry should be in the name of the author of the code, not the person who installs it. Also use bzr commit's "--author" option. Do not install any of your own changes in the same commit.

3. With images, add the legal info to a README file in the directory containing the image.

4. If you add a lot of text to a previously trivial file that had no legal notices, consider if you should add a copyright statement.

5. Please don't just add an FSF copyright without checking that is the right thing to do.

Every non-trivial file distributed through the Emacs repository should be self-explanatory in terms of copyright and license. This includes files that are not distributed in Emacs releases (for example, the admin/ directory), because the whole Emacs repository is publicly available.

The definition of triviality is a little vague, but a rule of thumb is that any file with less than 15 lines of actual content is trivial. If a file is auto-generated (eg ldefs-boot.el) from another one in the repository, then it does not really matter about adding a copyright statement to the generated file.

Legal advice says that we could, if we wished, put a license notice even in trivial files, because copyright law in general looks at the overall work as a whole. It is not _necessary_ to do so, and rms prefers that we do not. This means one needs to take care that trivial files do not grow and become non-trivial without having a license
added. NB consequently, if you add a lot of text to a small file, consider whether your changes have made the file worthy of a copyright notice, and if so, please add one.

It can be helpful to put a reminder comment at the start of a trivial file, eg: "add a license notice if this grows to > 10 lines of code".

The years in the copyright notice should be updated every year (see file "years" in this directory). The PDF versions of refcards etc should display copyright notices (an exception to the rule about "generated" files), but these can just display the latest year. The full list of years should be kept in comments in the source file. If these are distributed in the repository, check in a regenerated version when the tex files are updated.

Copyright changes should be propagated to any associated repositories (eg Gnus, MH-E), but I think in every case this happens automatically (?).

All README (and other such text files) that are non-trivial should contain copyright statements and GPL license notices, exactly as .el files do (see e.g. README in the top-level directory). Before 2007, we used a simple, short statement permitting copying and modification provided legal notices were retained. In Feb 2007 we switched to the standard GPL text, on legal advice. Some older text files in etc/ should, however, keep their current licenses (see below for list).

For image files, the copyright and license details should be recorded in a README file in each directory with images. (Legal advice says that we need not add notices to each image file individually, if they allow for that.). It is recommended to use the word "convert" to describe the automatic process of changing an image from one format to another (http://lists.gnu.org/archive/html/emacs-devel/2007-02/msg00618.html).

When installing a file with an "unusual" license (after checking first it is ok), put a copy of the copyright and license in the file (if possible. It's ok if this makes the file incompatible with its original format, if it can still be used by Emacs), or in a README file in the relevant directory.

The vast majority of files are copyright FSF and distributed under the GPL. A few files (mainly related to language and charset support) are copyright AIST alone, or both AIST and FSF. (Contact Kenichi Handa with questions about legal issues in such files.) In all these cases, the copyright years in each file should be updated each year.

There are some exceptions to the points in the previous paragraph, and
these are listed below for reference, together with any files where the copyright needs to be updated in "unusual" ways.

If you find any other such cases, please consult to check they are ok, and note them in this file. This includes missing copyright notices, and "odd" copyright holders. In most cases, individual authors should not appear in copyright statements. Either the copyright has been assigned (check copyright.list) to the FSF (in which case the original author should be removed and the year(s) transferred to the FSF); or else it is possible the file should not be in Emacs at all (please report!).

Note that it seems painfully clear that one cannot rely on commit logs, or even ChangeLogs, for older changes. People often installed changes from others, without recording the true authorship.

[For reference, most of these points were established via email with rms, 2007/1, "Copyright years".

In March 2011, information on some files no longer included was removed. Consult older versions of this document if interested.]

lisp/version.el          # emacs-copyright
lib-src/ebrowse.c        # version
lib-src/etags.c          # print_version
lib-src/rcs2log          # Copyright
Cocoa/Emacs.base/Contents/Info.plist
Cocoa/Emacs.base/Contents/Resources/English.lproj/InfoPlist.strings
GNUstep/Emacs.base/Resources/Info-gnustep.plist
`set-copyright' in admin.el will do all the above.

aclocal.m4
configure
m4/*,m4
- copyright FSF, with unlimited permission to copy, distribute and modify

lib/Makefile.in
- copyright FSF, with MIT-like license

build-aux/install-sh
- this file is copyright MIT, which is OK. Leave the copyright alone.

etc/refcards/*.tex
also update the \def\year macro for the latest year.

etc/future-bug
- doesn't need a humorless disclaimer, because Karl Fogel says we
can consider it part of Emacs, and he has a blinder disclaimer for
Emacs changes. (email to rgm "[Emacs-commit] emacs/etc future-bug",
2007028)

e tc/letter.pbm, letter.xpm
- trivial, no notice needed.

e tc/FTP, ORDERS
- trivial (at time of writing), no license needed

e tc/GNU, INTERVIEW, LINUX-GNU, MOTIVATION, SERVICE, THE-GNU-PROJECT,
WHY-FREE
rms: "These are statements of opinion or testimony. Their licenses
should permit verbatim copying only. Please don't change the
licenses that they have. They are distributed with Emacs but they
are not part of Emacs."

e tc/HELLO
standard notices. Just a note that although the file itself is not
really copyrightable, in the wider context of it being part of
Emacs (and written by those with assignments), a standard notice is
fine.

e tc/MAILINGLISTS
rms: simple license is fine for this file

leim/CXTERM-DIC/4Corner.tit, ARRAY30.tit, CCDOSPY.tit, ECDICT.tit,
ETZY.tit, PY-b5.tit, Punct-b5.tit, Punct.tit, QJ-b5.tit, QJ.tit,
SW.tit, TONEPY.tit, ZOZY.tit
- leave the copyrights alone.

leim/MISC-DIC/CTLau-b5.html, CTLau.html, cangjie-table.b5, cangjie-table.cnsl,
pinyin.map, ziranma.cin
- leave the copyright alone.
Note that pinyin.map, ziranma.cin (and hence the generated
leim/quail/PY.el, ZIRANMA.el) are under GPLv1 or later.

leim/SKK-DIC/SKK-JISYO.L
ja-dic/ja-dic.el
(the latter is auto-generated from the former). Leave the copyright alone.

lib-src/etags.c
Copyright information is duplicated in etc/ETAGS.README. Update that
file too.

Until 2007 etags.c was described as being copyright FSF and Ken Arnold.
After some investigation in Feb 2007, then to the best of our
knowledge we believe that the original 1984 Emacs version was based
on the version in BSD4.2. See for example this 1985 post from Ken Arnold:
<http://groups.google.com/group/mod.sources/browse_thread/thread/ffe5c55845a640a9>
I have received enough requests for the current source to ctags
to post it. Here is the latest version (what will go out with
4.3, modulo any bugs fixed during the beta period). It is the
4.2 ctags with recognition of yacc and lex tags added.

See also a 1984 version of ctags (no copyright) posted to net.sources:
<http://groups.google.com/group/net.sources/msg/a21b6c21be12a98d>
Version of etags.c in emacs-16.56 duplicates comment typos.

Accordingly, in Feb 2007 we added a 1984 copyright for the
University of California and a revised BSD license. The terms of
this require that the full license details be available in binary
distributions - hence the file etc/ETAGS.README. The fact that the
--version output just says "Copyright <year> FSF" is apparently OK
from a legal point of view.

lisp/cedet/semantic/imenu.el
  in which Eric Ludlam established that the remaining contributions
  from authors other than himself were negligible.

lisp/play/tetris.el
- no special rules about the copyright. We note here that we believe
  (2007/1) there is no problem with our use of the name "tetris" or
  the concept.
  rms: "My understanding is that game rules as such are not copyrightable."
  rms: Legal advice is that we are ok and need not worry about this.

lisp/net/tramp.el
- there are also copyrights in the body of the file. Update these too.

lwlib/
rms (2007/02/17): "Lwlib is not assigned to the FSF; we don't consider
  it part of Emacs. [...] Therefore non-FSF copyrights are ok in lwlib."

NB don't change the GPL version used for lwlib .c and .h files (see
below).

FSF copyrights should only appear in files which have undergone
non-trivial cumulative changes from the original versions in the Lucid
Widget Library. NB this means that if you make non-trivial changes to
a file with no FSF copyright, you should add one. Also, if changes are
reverted to the extent that a file becomes basically the same as the original version, the FSF copyright should be removed.

In my (rgm) opinion, as of Feb 2007, all the non-trivial files differ significantly from the original versions, with the exception of lwlib-Xm.h. Most of the changes that were made to this file have subsequently been reverted. Therefore I removed the FSF copyright from this file (which is arguably too trivial to merit a notice anyway). I added FSF copyright to the following files which did not have them already: Makefile.in, lwlib-Xaw.c, lwlib-int.h (borderline), lwlib-utils.c (borderline), lwlib.c, lwlib.h.

Copyright years before the advent of public CVS in 2001 were those when I judged (from the CVS logs) that non-trivial amounts of change had taken place. I also adjusted the existing FSF years in xlwmenu.c, xlwmenu.h, and xlwmenuP.h on the same basis.

Note that until Feb 2007, the following files in lwlib were lacking notices: lwlib-int.h, lwlib.h, lwlib-Xaw.h, lwlib-Xlw.h, lwlib-utils.h

The following files did not list a Lucid copyright: xlwmenu.h, xlwmenuP.h.

To the best of our knowledge, all the code files in lwlib were originally part of the Lucid Widget Library, even if they did not say so explicitly. For example, they were all present in Lucid Emacs 19.1 in 1992. The exceptions are the two Xaw files, which did not appear till Lucid Emacs 19.9 in 1994. The file lwlib-Xaw.h is too trivial to merit a copyright notice, but would presumably have the same one as lwlib-Xaw.c. We have been unable to find a true standalone version of LWL, if there was such a thing, to check definitively.

To clarify the situation, in Feb 2007 we added Lucid copyrights and GPL notices to those files lacking either that were non-trivial, namely: lwlib-int.h, lwlib.h, xlwmenu.h, xlwmenuP.h. This represents our best understanding of the legal status of these files. We also clarified the notices in Makefile.in, which was originally the Makefile auto-generated from Lucid's Imakefile.

As of Feb 2007, the following files are considered too trivial for notices: lwlib-Xaw.h, lwlib-Xlw.h, lwlib-utils.h.

The version of lwlib/ first installed in Emacs seems to be the same as that used in Lucid Emacs 19.8 (released 6-sep-93); except the two Xaw files, which did not appear till Athena support was added in Lucid Emacs 19.9. In Lucid Emacs 19.1, all files were under GPLv1 or later, but by Lucid Emacs 19.8, lwlib.c and xlwmenu.c had been switched to v2 or later. These are the versions that were first installed in Emacs.
So in GNU Emacs, these two files have been under v2 or later since 1994.

It seems that it was the intention of Lucid to use v1 or later (excepting the two files mentioned previously); so this is the license we have used when adding notices to code that did not have notices originally. Although we have the legal right to switch to v2 or later, rms prefers that we do not do so.

doc/*/doclicense.texi
- leave the copyright alone in this imported file.

doc/*/texi - All manuals should be under GFDL (but see below), and should include a copy of it, so that they can be distributed separately. faq.texi has a different license, for some reason no-one can remember.

doc/misc/mh-e.texi is dual-licensed (GPL and GFDL) per agreement with FSF (reconfirmed by rms Aug 25 2008). Discussion with licensing@fsf.org starting on Thu, 07 Aug 2003 with subject: "[gnu.org #58812] Changing license of MH-E manual"

msdos/is_exec.c, sigaction.c - these files are copyright DJ Delorie. Leave the copyrights alone. Leave the Eli Zaretskii copyright in is_exec.c alone. See the msdos/README file for the legal history of these files.

msdos/sed*.inp - These files are copyright FSF and distributed under an MIT-like license.

oldXMenu/
Keep the "copyright.h" method used by X11, rather than moving the licenses into the files. Note that the original X10.h did not use copyright.h, but had an explicit notice, which we retain.

If you make non-trivial changes to a file which does not have an FSF notice, add one and a GPL notice (as per Activate.c). If changes to a file are reverted such that it becomes essentially the same as the original X11 version, remove the FSF notice and GPL.

Only the files which differ significantly from the original X11 versions should have FSF copyright and GPL notices. At time of writing (Feb 2007), this is: Activate.c, Create.c, Internal.c. I (rgm)
established this by diff'ing the current files against those in X11R1, and when I found significant differences looking in the ChangeLog for the years they originated (the CVS logs are truncated before 1999). I therefore removed the FSF notices (added in 200x) from the other files. There are some borderline cases IMO: AddSel.c, InsSel.c, XMakeAssoc.c, XMenu.h. For these I erred on the side of NOT adding FSF notices.

With regards to whether the files we have changed should have GPL added or not, rms says (2007-02-25, "oldXmenu issues"):

It does not make much difference, because oldXmenu is obsolete except for use in Emacs (and it is not normally used in Emacs any more either).

So, to make things simple, please put our changes under the GPL.

insque.c had no copyright notice until 2005. The version of insque.c added to Emacs 1992-01-27 is essentially the same as insremque.c added to glic three days later by Roland McGrath, with an FSF copyright and GPL, but no ChangeLog entry:

<http://sources.redhat.com/cgi-bin/cvsweb.cgi/~checkout~/libc/misc/insremque.c?rev=1.1&cvsroot=glibc>

To the best of his recollection, McGrath (who has a copyright assignment) was the author of this file (email from roland at frob.com to rms, 2007-02-23, "Where did insque.c come from?"). The FSF copyright and GPL in this file are therefore correct as far as we understand it.

Imakefile had no legal info in Feb 2007, but was obviously based on the X11 version (which also had no explicit legal info). As it was unused, I removed it. It would have the same MIT copyright as Makefile.in does now.

src/gmalloc.c
- contains numerous copyrights from the GNU C library. Leave them alone.

src/ndir.h
- see comments below. This file is OK to be released with Emacs 22, but we may want to revisit it afterwards.

** Some notes on resolved issues, for historical information only

etc/TERMS
rms: "surely written either by me or by ESR. (If you can figure out which year, I can probably tell you which.) Either way, we have papers
for it." It was present in Emacs-16.56 (15-jul-85). rms: "Then I conclude it was written by me."

lisp/term/README
- had no copyright notice till Feb 2007. ChangeLog.3 suggests it was written by Eric Raymond. When asked by rms on 14 Feb 2007 he said:

I don't remember writing it, but it reads like my prose and I believe I wrote the feature(s) it's describing. So I would have been the likeliest person to write it.

Odds are that I did, but I'm not certain.

Accordingly, FSF copyright was added.

src/unexhp9k800.c
- briefly removed due to legal uncertainly Jan-Mar 2007. The relevant assignment is under "hp9k800" in copyright.list. File was written by John V. Morris at HP, and disclaimed by the author and HP. So this file is public domain.

lisp/progmodes/python.el
Dave Love alerted us to a potential legal problem:

On consultation with a lawyer, we found there was no problem:

** Issues that are "fixed" for the release of Emacs 22, but we may wish to revisit later in more detail

admin/check-doc-strings
File says it's in the public domain, but that might not make it so.

etc/e/eterm-color.ti
src/ndir.h
On legal advice from Matt Norwood, the following comment was added to these files in Feb/Mar 2007:

The code here is forced by the interface, and is not subject to copyright, constituting the only possible expression of the algorithm in this format.

With the addition of this notice, these files are OK for the
upcoming Emacs-22 release. Post-release, we can revisit this issue and possibly add a list of all authors who have changed these files. (details in email from Matt Norwood to rms, 2007/02/03).

src/s/aix3-2.h, hpux8.h, hpux9.h, irix5-0.h, netbsd.h, usg5-4-2.h
[note some of these have since been merged into other files]
- all these (not obviously trivial) files were missing copyrights till Feb 2007, when FSF copyright was added. Matt Norwood advised:

For now, I think the best policy is to assume that we do have assignments from the authors (I recall many of these header files as having been originally written by rms), and to attach an FSF copyright with GPL notice. We can amend this if and when we complete the code audit. Any additions to these files by non-assigned authors are arguably "de minimis" contributions to Emacs: small changes or suggestions to a work that are subsumed in the main authors' copyright in the entire work.

Here is my (rgm) take on the details of the above files:

? irix5-0.h
I would say started non-trivial (1993, jimb, heavily based on irix4-0.h). A few borderline non-tiny changes since.

usg5-4-2.h
started non-trivial, but was heavily based on usg5-4.h, which was and is copyright FSF. only tiny changes since installed.

aix3-2.h, hpux8.h, hpux9.h, netbsd.h
started trivial, grown in tiny changes.

netbsd.h:
Roland McGrath said to rms (2007/02/17): "I don't really remember anything about it. If I put it in without other comment, then probably I wrote it myself."

Someone might want to tweak the copyright years (for dates before 2001) that I used in all these files.

Note: erring on the side of caution, I also added notices to some files I thought might be considered non-trivial (if one includes comment) in s/:

aix4-1.h hpux10.h irix6-5.h
sol2.h

(everything with > 30 non-blank lines, which at least is _some_ kind of system)
*** These are copyright issues that need not be fixed until after Emacs 22 is released (though if they can be fixed before, that is obviously good):

Is it OK to just `bzr remove' a file for legal reasons, or is something more drastic needed? A removed file is still available from the repository, if suitable options are applied. (This issue obviously does not affect a release).

rms: will ask lawyer

Make sure that all files with non-standard copyrights or licenses are noted in this file.

REMOVED etc/gnu.xpm, nt/icons/emacs21.ico, nt/icons/sink.ico
- Restore if find legal info. emacs21.ico is not due to Davenport. Geoff Voelker checked but could not find a record of where it came from.

e tc/images
Image files from GTK, Gnome are under GPLv2 (no "or later"?). RMS will contact image authors in regards to future switch to v3.

e tc/TUTORIAL* (translations)
switch to GPL (see english TUTORIAL)
rms: "We can leave the TUTORIAL translations alone until their maintainers update them."
Can adapt short license text from end of GPL translations at:
http://www.gnu.org/licenses/translations.html
Only a few sentences around the license notice need changing from previous version.
Done: TUTORIAL.eo

*** These are copyright issues still to be addressed:

None known.

** NOTES ON RELICENSING TO GPL3

The EMACS_22_BASE branch was changed to GPLv3 (or later) 2007/07/25.
Some notes:

1. There are some files in the Emacs tree which are not part of Emacs (eg those included from Gnulib). These are all copyright FSF and (at time of writing) GPL >= 2. rms says may as well leave the licenses of these alone (may import them from Gnulib again). These are:

   Gnulib:
   build-aux/compile
   build-aux/config.guess
   build-aux/config.sub
   build-aux/depcomp
   build-aux/missing
   build-aux/move-if-change
   build-aux/snippet/_Noreturn.h
   build-aux/snippet/arg-nonnul.h
   build-aux/snippet/c++defs.h
   build-aux/snippet/warn-on-use.h
   doc/man/texinfo.tex
   lib/*.ch
   lib/gnulib.mk
   src/gmalloc.c
   src/termcap.c
   src/tparam.c

Note _not_ included in the above are src/regex.{c,h} (rms: "That forked version is only in Emacs, so definitely relicense that."), and oldXMenu/insque.c (rms: "We wrote that specifically for Emacs, so definitely relicense that.").

2. The files that are copyright FSF and AIST, or AIST alone, should be and were updated, ditto the oldXMenu files with FSF copyright, and msdos/is_exec.c and sigaction.c.

3. lwlib/

Files originally in Lucid Widget Library were left alone (excludes ChangeLog, etc), ie remain under GPL v1 or later, or v2 or later.
(rms: "We may as well leave this alone, since we are never going to change it much.")

4. There are some files where the FSF holds no copyright. These were left alone:

   leim/MISC-DIC/CTLau-b5.html >= v2
   leim/MISC-DIC/CTLau.html     >= v2
5. At time of writing, some non-Emacs icons included from Gnome remain under GPLv2 (no "or later"). See:

   etc/images/gnus/README
   etc/images/mail/README
   etc/images/README
   nt/icons/README

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Why Software Should Be Free

by Richard Stallman

(Version of April 24, 1992)

Copyright (C) 1991, 1992, Free Software Foundation, Inc.

Verbatim copying and redistribution is permitted without royalty; alteration is not permitted.

Introduction
************
The existence of software inevitably raises the question of how decisions about its use should be made. For example, suppose one individual who has a copy of a program meets another who would like a copy. It is possible for them to copy the program; who should decide whether this is done? The individuals involved? Or another party, called the "owner"?

Software developers typically consider these questions on the assumption that the criterion for the answer is to maximize developers' profits. The political power of business has led to the government adoption of both this criterion and the answer proposed by the developers: that the program has an owner, typically a corporation associated with its development.

I would like to consider the same question using a different criterion: the prosperity and freedom of the public in general.

This answer cannot be decided by current law—the law should conform to ethics, not the other way around. Nor does current practice decide this question, although it may suggest possible answers. The only way to judge is to see who is helped and who is hurt by recognizing owners of software, why, and how much. In other words, we should perform a cost-benefit analysis on behalf of society as a whole, taking account of individual freedom as well as production of material goods.

In this essay, I will describe the effects of having owners, and show that the results are detrimental. My conclusion is that programmers have the duty to encourage others to share, redistribute, study and improve the software we write: in other words, to write "free" software. (1)

How Owners Justify Their Power

Those who benefit from the current system where programs are property offer two arguments in support of their claims to own programs: the emotional argument and the economic argument.

The emotional argument goes like this: "I put my sweat, my heart, my soul into this program. It comes from *me*, it's *mine*!"

This argument does not require serious refutation. The feeling of attachment is one that programmers can cultivate when it suits them; it is not inevitable. Consider, for example, how willingly the same programmers usually sign over all rights to a large corporation for a salary; the emotional attachment mysteriously vanishes. By contrast, consider the great artists and artisans of medieval times, who didn't even sign their names to their work. To them, the name of the artist...
was not important. What mattered was that the work was done--and the purpose it would serve. This view prevailed for hundreds of years.

The economic argument goes like this: "I want to get rich (usually described inaccurately as 'making a living'), and if you don't allow me to get rich by programming, then I won't program. Everyone else is like me, so nobody will ever program. And then you'll be stuck with no programs at all!" This threat is usually veiled as friendly advice from the wise.

I'll explain later why this threat is a bluff. First I want to address an implicit assumption that is more visible in another formulation of the argument.

This formulation starts by comparing the social utility of a proprietary program with that of no program, and then concludes that proprietary software development is, on the whole, beneficial, and should be encouraged. The fallacy here is in comparing only two outcomes--proprietary software vs. no software--and assuming there are no other possibilities.

Given a system of intellectual property, software development is usually linked with the existence of an owner who controls the software's use. As long as this linkage exists, we are often faced with the choice of proprietary software or none. However, this linkage is not inherent or inevitable; it is a consequence of the specific social/legal policy decision that we are questioning: the decision to have owners. To formulate the choice as between proprietary software vs. no software is begging the question.

The Argument against Having Owners
**********************************

The question at hand is, "Should development of software be linked with having owners to restrict the use of it?"

In order to decide this, we have to judge the effect on society of each of those two activities *independently*: the effect of developing the software (regardless of its terms of distribution), and the effect of restricting its use (assuming the software has been developed). If one of these activities is helpful and the other is harmful, we would be better off dropping the linkage and doing only the helpful one.

To put it another way, if restricting the distribution of a program already developed is harmful to society overall, then an ethical software developer will reject the option of doing so.

To determine the effect of restricting sharing, we need to compare
the value to society of a restricted (i.e., proprietary) program with that of the same program, available to everyone. This means comparing two possible worlds.

This analysis also addresses the simple counterargument sometimes made that "the benefit to the neighbor of giving him or her a copy of a program is cancelled by the harm done to the owner." This counterargument assumes that the harm and the benefit are equal in magnitude. The analysis involves comparing these magnitudes, and shows that the benefit is much greater.

To elucidate this argument, let's apply it in another area: road construction.

It would be possible to fund the construction of all roads with tolls. This would entail having toll booths at all street corners. Such a system would provide a great incentive to improve roads. It would also have the virtue of causing the users of any given road to pay for that road. However, a toll booth is an artificial obstruction to smooth driving--artificial, because it is not a consequence of how roads or cars work.

Comparing free roads and toll roads by their usefulness, we find that (all else being equal) roads without toll booths are cheaper to construct, cheaper to run, safer, and more efficient to use. In a poor country, tolls may make the roads unavailable to many citizens. The roads without toll booths thus offer more benefit to society at less cost; they are preferable for society. Therefore, society should choose to fund roads in another way, not by means of toll booths. Use of roads, once built, should be free.

When the advocates of toll booths propose them as *merely* a way of raising funds, they distort the choice that is available. Toll booths do raise funds, but they do something else as well: in effect, they degrade the road. The toll road is not as good as the free road; giving us more or technically superior roads may not be an improvement if this means substituting toll roads for free roads.

Of course, the construction of a free road does cost money, which the public must somehow pay. However, this does not imply the inevitability of toll booths. We who must in either case pay will get more value for our money by buying a free road.

I am not saying that a toll road is worse than no road at all. That would be true if the toll were so great that hardly anyone used the road--but this is an unlikely policy for a toll collector. However, as long as the toll booths cause significant waste and inconvenience, it is better to raise the funds in a less obstructive fashion.
To apply the same argument to software development, I will now show that having "toll booths" for useful software programs costs society dearly: it makes the programs more expensive to construct, more expensive to distribute, and less satisfying and efficient to use. It will follow that program construction should be encouraged in some other way. Then I will go on to explain other methods of encouraging and (to the extent actually necessary) funding software development.

The Harm Done by Obstructing Software
=======================================

Consider for a moment that a program has been developed, and any necessary payments for its development have been made; now society must choose either to make it proprietary or allow free sharing and use. Assume that the existence of the program and its availability is a desirable thing.(3)

Restrictions on the distribution and modification of the program cannot facilitate its use. They can only interfere. So the effect can only be negative. But how much? And what kind?

Three different levels of material harm come from such obstruction:

* Fewer people use the program.

* None of the users can adapt or fix the program.

* Other developers cannot learn from the program, or base new work on it.

Each level of material harm has a concomitant form of psychosocial harm. This refers to the effect that people's decisions have on their subsequent feelings, attitudes and predispositions. These changes in people's ways of thinking will then have a further effect on their relationships with their fellow citizens, and can have material consequences.

The three levels of material harm waste part of the value that the program could contribute, but they cannot reduce it to zero. If they waste nearly all the value of the program, then writing the program harms society by at most the effort that went into writing the program. Arguably a program that is profitable to sell must provide some net direct material benefit.

However, taking account of the concomitant psychosocial harm, there is no limit to the harm that proprietary software development can do.
Obstructing Use of Programs
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The first level of harm impedes the simple use of a program. A copy of a program has nearly zero marginal cost (and you can pay this cost by doing the work yourself), so in a free market, it would have nearly zero price. A license fee is a significant disincentive to use the program. If a widely-useful program is proprietary, far fewer people will use it.

It is easy to show that the total contribution of a program to society is reduced by assigning an owner to it. Each potential user of the program, faced with the need to pay to use it, may choose to pay, or may forego use of the program. When a user chooses to pay, this is a zero-sum transfer of wealth between two parties. But each time someone chooses to forego use of the program, this harms that person without benefiting anyone. The sum of negative numbers and zeros must be negative.

But this does not reduce the amount of work it takes to *develop* the program. As a result, the efficiency of the whole process, in delivered user satisfaction per hour of work, is reduced.

This reflects a crucial difference between copies of programs and cars, chairs, or sandwiches. There is no copying machine for material objects outside of science fiction. But programs are easy to copy; anyone can produce as many copies as are wanted, with very little effort. This isn't true for material objects because matter is conserved: each new copy has to be built from raw materials in the same way that the first copy was built.

With material objects, a disincentive to use them makes sense, because fewer objects bought means less raw materials and work needed to make them. It's true that there is usually also a startup cost, a development cost, which is spread over the production run. But as long as the marginal cost of production is significant, adding a share of the development cost does not make a qualitative difference. And it does not require restrictions on the freedom of ordinary users.

However, imposing a price on something that would otherwise be free is a qualitative change. A centrally-imposed fee for software distribution becomes a powerful disincentive.

What's more, central production as now practiced is inefficient even as a means of delivering copies of software. This system involves enclosing physical disks or tapes in superfluous packaging, shipping large numbers of them around the world, and storing them for sale. This cost is presented as an expense of doing business; in truth, it is part of the waste caused by having owners.
Damaging Social Cohesion

Suppose that both you and your neighbor would find it useful to run a certain program. In ethical concern for your neighbor, you should feel that proper handling of the situation will enable both of you to use it. A proposal to permit only one of you to use the program, while restraining the other, is divisive; neither you nor your neighbor should find it acceptable.

Signing a typical software license agreement means betraying your neighbor: "I promise to deprive my neighbor of this program so that I can have a copy for myself." People who make such choices feel internal psychological pressure to justify them, by downgrading the importance of helping one's neighbors--thus public spirit suffers. This is psychosocial harm associated with the material harm of discouraging use of the program.

Many users unconsciously recognize the wrong of refusing to share, so they decide to ignore the licenses and laws, and share programs anyway. But they often feel guilty about doing so. They know that they must break the laws in order to be good neighbors, but they still consider the laws authoritative, and they conclude that being a good neighbor (which they are) is naughty or shameful. That is also a kind of psychosocial harm, but one can escape it by deciding that these licenses and laws have no moral force.

Programmers also suffer psychosocial harm knowing that many users will not be allowed to use their work. This leads to an attitude of cynicism or denial. A programmer may describe enthusiastically the work that he finds technically exciting; then when asked, "Will I be permitted to use it?", his face falls, and he admits the answer is no. To avoid feeling discouraged, he either ignores this fact most of the time or adopts a cynical stance designed to minimize the importance of it.

Since the age of Reagan, the greatest scarcity in the United States is not technical innovation, but rather the willingness to work together for the public good. It makes no sense to encourage the former at the expense of the latter.

Obstructing Custom Adaptation of Programs

The second level of material harm is the inability to adapt programs. The ease of modification of software is one of its great advantages over older technology. But most commercially available software isn't
available for modification, even after you buy it. It's available for you to take it or leave it, as a black box--that is all.

A program that you can run consists of a series of numbers whose meaning is obscure. No one, not even a good programmer, can easily change the numbers to make the program do something different.

Programmers normally work with the "source code" for a program, which is written in a programming language such as Fortran or C. It uses names to designate the data being used and the parts of the program, and it represents operations with symbols such as `+' for addition and `'-' for subtraction. It is designed to help programmers read and change programs. Here is an example; a program to calculate the distance between two points in a plane:

```c
float
distance (p0, p1)
{
    struct point p0, p1;
    float xdist = p1.x - p0.x;
    float ydist = p1.y - p0.y;
    return sqrt (xdist * xdist + ydist * ydist);
}
```

Here is the same program in executable form, on the computer I normally use:

```
1314258944  -232267772  -231844864  1634862
1411907592  -231844736  2159150  1420296208
-234880989  -234879837  -234879966  -232295424
1644167167   -3214848  1090581031  1962942495
  572518958  -803143692  1314803317
```

Source code is useful (at least potentially) to every user of a program. But most users are not allowed to have copies of the source code. Usually the source code for a proprietary program is kept secret by the owner, lest anybody else learn something from it. Users receive only the files of incomprehensible numbers that the computer will execute. This means that only the program's owner can change the program.

A friend once told me of working as a programmer in a bank for about six months, writing a program similar to something that was commercially available. She believed that if she could have gotten source code for that commercially available program, it could easily have been adapted to their needs. The bank was willing to pay for this, but was not permitted to--the source code was a secret. So she had to do six months of make-work, work that counts in the GNP but was actually waste.
The MIT Artificial Intelligence lab (AI lab) received a graphics printer as a gift from Xerox around 1977. It was run by free software to which we added many convenient features. For example, the software would notify a user immediately on completion of a print job. Whenever the printer had trouble, such as a paper jam or running out of paper, the software would immediately notify all users who had print jobs queued. These features facilitated smooth operation.

Later Xerox gave the AI lab a newer, faster printer, one of the first laser printers. It was driven by proprietary software that ran in a separate dedicated computer, so we couldn't add any of our favorite features. We could arrange to send a notification when a print job was sent to the dedicated computer, but not when the job was actually printed (and the delay was usually considerable). There was no way to find out when the job was actually printed; you could only guess. And no one was informed when there was a paper jam, so the printer often went for an hour without being fixed.

The system programmers at the AI lab were capable of fixing such problems, probably as capable as the original authors of the program. Xerox was uninterested in fixing them, and chose to prevent us, so we were forced to accept the problems. They were never fixed.

Most good programmers have experienced this frustration. The bank could afford to solve the problem by writing a new program from scratch, but a typical user, no matter how skilled, can only give up.

Giving up causes psychosocial harm--to the spirit of self-reliance. It is demoralizing to live in a house that you cannot rearrange to suit your needs. It leads to resignation and discouragement, which can spread to affect other aspects of one's life. People who feel this way are unhappy and do not do good work.

Imagine what it would be like if recipes were hoarded in the same fashion as software. You might say, "How do I change this recipe to take out the salt?", and the great chef would respond, "How dare you insult my recipe, the child of my brain and my palate, by trying to tamper with it? You don't have the judgment to change my recipe and make it work right!"

"But my doctor says I'm not supposed to eat salt! What can I do? Will you take out the salt for me?"

"I would be glad to do that; my fee is only $50,000." Since the owner has a monopoly on changes, the fee tends to be large. "However, right now I don't have time. I am busy with a commission to design a new recipe for ship's biscuit for the Navy Department. I might get
around to you in about two years."

Obstructing Software Development
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The third level of material harm affects software development. Software development used to be an evolutionary process, where a person would take an existing program and rewrite parts of it for one new feature, and then another person would rewrite parts to add another feature; in some cases, this continued over a period of twenty years. Meanwhile, parts of the program would be "cannibalized" to form the beginnings of other programs.

The existence of owners prevents this kind of evolution, making it necessary to start from scratch when developing a program. It also prevents new practitioners from studying existing programs to learn useful techniques or even how large programs can be structured.

Owners also obstruct education. I have met bright students in computer science who have never seen the source code of a large program. They may be good at writing small programs, but they can't begin to learn the different skills of writing large ones if they can't see how others have done it.

In any intellectual field, one can reach greater heights by standing on the shoulders of others. But that is no longer generally allowed in the software field--you can only stand on the shoulders of the other people *in your own company*.

The associated psychosocial harm affects the spirit of scientific cooperation, which used to be so strong that scientists would cooperate even when their countries were at war. In this spirit, Japanese oceanographers abandoning their lab on an island in the Pacific carefully preserved their work for the invading U.S. Marines, and left a note asking them to take good care of it.

Conflict for profit has destroyed what international conflict spared. Nowadays scientists in many fields don't publish enough in their papers to enable others to replicate the experiment. They publish only enough to let readers marvel at how much they were able to do. This is certainly true in computer science, where the source code for the programs reported on is usually secret.

It Does Not Matter How Sharing Is Restricted
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I have been discussing the effects of preventing people from copying, changing and building on a program. I have not specified how this
obstruction is carried out, because that doesn't affect the conclusion. Whether it is done by copy protection, or copyright, or licenses, or encryption, or ROM cards, or hardware serial numbers, if it *succeeds* in preventing use, it does harm.

Users do consider some of these methods more obnoxious than others. I suggest that the methods most hated are those that accomplish their objective.

Software Should be Free

I have shown how ownership of a program--the power to restrict changing or copying it--is obstructive. Its negative effects are widespread and important. It follows that society shouldn't have owners for programs.

Another way to understand this is that what society needs is free software, and proprietary software is a poor substitute. Encouraging the substitute is not a rational way to get what we need.

Vaclav Havel has advised us to "Work for something because it is good, not just because it stands a chance to succeed." A business making proprietary software stands a chance of success in its own narrow terms, but it is not what is good for society.

Why People Will Develop Software

If we eliminate intellectual property as a means of encouraging people to develop software, at first less software will be developed, but that software will be more useful. It is not clear whether the overall delivered user satisfaction will be less; but if it is, or if we wish to increase it anyway, there are other ways to encourage development, just as there are ways besides toll booths to raise money for streets. Before I talk about how that can be done, first I want to question how much artificial encouragement is truly necessary.

Programming is Fun

There are some lines of work that few will enter except for money; road construction, for example. There are other fields of study and art in which there is little chance to become rich, which people enter for their fascination or their perceived value to society. Examples include mathematical logic, classical music, and archaeology; and political organizing among working people. People compete, more sadly than bitterly, for the few funded positions available, none of which is
funded very well. They may even pay for the chance to work in the field, if they can afford to.

Such a field can transform itself overnight if it begins to offer the possibility of getting rich. When one worker gets rich, others demand the same opportunity. Soon all may demand large sums of money for doing what they used to do for pleasure. When another couple of years go by, everyone connected with the field will deride the idea that work would be done in the field without large financial returns. They will advise social planners to ensure that these returns are possible, prescribing special privileges, powers and monopolies as necessary to do so.

This change happened in the field of computer programming in the past decade. Fifteen years ago, there were articles on "computer addiction": users were "onlining" and had hundred-dollar-a-week habits. It was generally understood that people frequently loved programming enough to break up their marriages. Today, it is generally understood that no one would program except for a high rate of pay. People have forgotten what they knew fifteen years ago.

When it is true at a given time that most people will work in a certain field only for high pay, it need not remain true. The dynamic of change can run in reverse, if society provides an impetus. If we take away the possibility of great wealth, then after a while, when the people have readjusted their attitudes, they will once again be eager to work in the field for the joy of accomplishment.

The question, "How can we pay programmers?", becomes an easier question when we realize that it's not a matter of paying them a fortune. A mere living is easier to raise.

Funding Free Software
====================

Institutions that pay programmers do not have to be software houses. Many other institutions already exist which can do this.

Hardware manufacturers find it essential to support software development even if they cannot control the use of the software. In 1970, much of their software was free because they did not consider restricting it. Today, their increasing willingness to join consortiums shows their realization that owning the software is not what is really important for them.

Universities conduct many programming projects. Today, they often sell the results, but in the 1970s, they did not. Is there any doubt that universities would develop free software if they were not allowed to sell software? These projects could be supported by the same
government contracts and grants which now support proprietary software development.

It is common today for university researchers to get grants to develop a system, develop it nearly to the point of completion and call that "finished", and then start companies where they really finish the project and make it usable. Sometimes they declare the unfinished version "free"; if they are thoroughly corrupt, they instead get an exclusive license from the university. This is not a secret; it is openly admitted by everyone concerned. Yet if the researchers were not exposed to the temptation to do these things, they would still do their research.

Programmers writing free software can make their living by selling services related to the software. I have been hired to port the GNU C compiler to new hardware, and to make user-interface extensions to GNU Emacs. (I offer these improvements to the public once they are done.) I also teach classes for which I am paid.

I am not alone in working this way; there is now a successful, growing corporation which does no other kind of work. Several other companies also provide commercial support for the free software of the GNU system. This is the beginning of the independent software support industry—an industry that could become quite large if free software becomes prevalent. It provides users with an option generally unavailable for proprietary software, except to the very wealthy.

New institutions such as the Free Software Foundation can also fund programmers. Most of the foundation's funds come from users buying tapes through the mail. The software on the tapes is free, which means that every user has the freedom to copy it and change it, but many nonetheless pay to get copies. (Recall that "free software" refers to freedom, not to price.) Some users order tapes who already have a copy, as a way of making a contribution they feel we deserve. The Foundation also receives sizable donations from computer manufacturers.

The Free Software Foundation is a charity, and its income is spent on hiring as many programmers as possible. If it had been set up as a business, distributing the same free software to the public for the same fee, it would now provide a very good living for its founder.

Because the Foundation is a charity, programmers often work for the Foundation for half of what they could make elsewhere. They do this because we are free of bureaucracy, and because they feel satisfaction in knowing that their work will not be obstructed from use. Most of all, they do it because programming is fun. In addition, volunteers have written many useful programs for us. (Recently even technical writers have begun to volunteer.)
This confirms that programming is among the most fascinating of all fields, along with music and art. We don't have to fear that no one will want to program.

What Do Users Owe to Developers?

There is a good reason for users of software to feel a moral obligation to contribute to its support. Developers of free software are contributing to the users' activities, and it is both fair and in the long term interest of the users to give them funds to continue.

However, this does not apply to proprietary software developers, since obstructionism deserves a punishment rather than a reward.

We thus have a paradox: the developer of useful software is entitled to the support of the users, but any attempt to turn this moral obligation into a requirement destroys the basis for the obligation. A developer can either deserve a reward or demand it, but not both.

I believe that an ethical developer faced with this paradox must act so as to deserve the reward, but should also entreat the users for voluntary donations. Eventually the users will learn to support software without coercion, just as they have learned to support public radio and television stations.

What Is Software Productivity?

If software were free, there would still be programmers, but perhaps fewer of them. Would this be bad for society?

Not necessarily. Today the advanced nations have fewer farmers than in 1900, but we do not think this is bad for society, because the few deliver more food to the consumers than the many used to do. We call this improved productivity. Free software would require far fewer programmers to satisfy the demand, because of increased software productivity at all levels:

* Wider use of each program that is developed.

* The ability to adapt existing programs for customization instead of starting from scratch.

* Better education of programmers.

* The elimination of duplicate development effort.
Those who object to cooperation because it would result in the employment of fewer programmers, are actually objecting to increased productivity. Yet these people usually accept the widely-held belief that the software industry needs increased productivity. How is this?

"Software productivity" can mean two different things: the overall productivity of all software development, or the productivity of individual projects. Overall productivity is what society would like to improve, and the most straightforward way to do this is to eliminate the artificial obstacles to cooperation which reduce it. But researchers who study the field of "software productivity" focus only on the second, limited, sense of the term, where improvement requires difficult technological advances.

Is Competition Inevitable?
**************************

Is it inevitable that people will try to compete, to surpass their rivals in society? Perhaps it is. But competition itself is not harmful; the harmful thing is *combat*.

There are many ways to compete. Competition can consist of trying to achieve ever more, to outdo what others have done. For example, in the old days, there was competition among programming wizards--competition for who could make the computer do the most amazing thing, or for who could make the shortest or fastest program for a given task. This kind of competition can benefit everyone, *as long as* the spirit of good sportsmanship is maintained.

Constructive competition is enough competition to motivate people to great efforts. A number of people are competing to be the first to have visited all the countries on Earth; some even spend fortunes trying to do this. But they do not bribe ship captains to strand their rivals on desert islands. They are content to let the best person win.

Competition becomes combat when the competitors begin trying to impede each other instead of advancing themselves--when "Let the best person win" gives way to "Let me win, best or not." Proprietary software is harmful, not because it is a form of competition, but because it is a form of combat among the citizens of our society.

Competition in business is not necessarily combat. For example, when two grocery stores compete, their entire effort is to improve their own operations, not to sabotage the rival. But this does not demonstrate a special commitment to business ethics; rather, there is little scope for combat in this line of business short of physical violence. Not all areas of business share this characteristic. Withholding information
that could help everyone advance is a form of combat.

Business ideology does not prepare people to resist the temptation to combat the competition. Some forms of combat have been made banned with anti-trust laws, truth in advertising laws, and so on, but rather than generalizing this to a principled rejection of combat in general, executives invent other forms of combat which are not specifically prohibited. Society’s resources are squandered on the economic equivalent of factional civil war.

"Why Don't You Move to Russia?"
*******************************

In the United States, any advocate of other than the most extreme form of laissez-faire selfishness has often heard this accusation. For example, it is leveled against the supporters of a national health care system, such as is found in all the other industrialized nations of the free world. It is leveled against the advocates of public support for the arts, also universal in advanced nations. The idea that citizens have any obligation to the public good is identified in America with Communism. But how similar are these ideas?

    Communism as was practiced in the Soviet Union was a system of central control where all activity was regimented, supposedly for the common good, but actually for the sake of the members of the Communist party. And where copying equipment was closely guarded to prevent illegal copying.

    The American system of intellectual property exercises central control over distribution of a program, and guards copying equipment with automatic copying protection schemes to prevent illegal copying.

    By contrast, I am working to build a system where people are free to decide their own actions; in particular, free to help their neighbors, and free to alter and improve the tools which they use in their daily lives. A system based on voluntary cooperation, and decentralization.

    Thus, if we are to judge views by their resemblance to Russian Communism, it is the software owners who are the Communists.

The Question of Premises
************************

    I make the assumption in this paper that a user of software is no less important than an author, or even an author's employer. In other words, their interests and needs have equal weight, when we decide which course of action is best.
This premise is not universally accepted. Many maintain that an author's employer is fundamentally more important than anyone else. They say, for example, that the purpose of having owners of software is to give the author's employer the advantage he deserves--regardless of how this may affect the public.

It is no use trying to prove or disprove these premises. Proof requires shared premises. So most of what I have to say is addressed only to those who share the premises I use, or at least are interested in what their consequences are. For those who believe that the owners are more important than everyone else, this paper is simply irrelevant.

But why would a large number of Americans accept a premise which elevates certain people in importance above everyone else? Partly because of the belief that this premise is part of the legal traditions of American society. Some people feel that doubting the premise means challenging the basis of society.

It is important for these people to know that this premise is not part of our legal tradition. It never has been.

Thus, the Constitution says that the purpose of copyright is to "promote the progress of science and the useful arts." The Supreme Court has elaborated on this, stating in 'Fox Film vs. Doyal' that "The sole interest of the United States and the primary object in conferring the [copyright] monopoly lie in the general benefits derived by the public from the labors of authors."

We are not required to agree with the Constitution or the Supreme Court. (At one time, they both condoned slavery.) So their positions do not disprove the owner supremacy premise. But I hope that the awareness that this is a radical right-wing assumption rather than a traditionally recognized one will weaken its appeal.

Conclusion
**********

We like to think that our society encourages helping your neighbor; but each time we reward someone for obstructionism, or admire them for the wealth they have gained in this way, we are sending the opposite message.

Software hoarding is one form of our general willingness to disregard the welfare of society for personal gain. We can trace this disregard from Ronald Reagan to Jim Bakker, from Ivan Boesky to Exxon, from failing banks to failing schools. We can measure it with the size of the homeless population and the prison population. The antisocial spirit feeds on itself, because the more we see that other people will
not help us, the more it seems futile to help them. Thus society decays into a jungle.

If we don't want to live in a jungle, we must change our attitudes. We must start sending the message that a good citizen is one who cooperates when appropriate, not one who is successful at taking from others. I hope that the free software movement will contribute to this: at least in one area, we will replace the jungle with a more efficient system which encourages and runs on voluntary cooperation.

-------- Footnotes --------

(1) The word "free" in "free software" refers to freedom, not to price; the price paid for a copy of a free program may be zero, or small, or (rarely) quite large.

(2) The issues of pollution and traffic congestion do not alter this conclusion. If we wish to make driving more expensive to discourage driving in general, it is disadvantageous to do this using toll booths, which contribute to both pollution and congestion. A tax on gasoline is much better. Likewise, a desire to enhance safety by limiting maximum speed is not relevant; a free access road enhances the average speed by avoiding stops and delays, for any given speed limit.

(3) One might regard a particular computer program as a harmful thing that should not be available at all, like the Lotus Marketplace database of personal information, which was withdrawn from sale due to public disapproval. Most of what I say does not apply to this case, but it makes little sense to argue for having an owner on the grounds that the owner will make the program less available. The owner will not make it *completely* unavailable, as one would wish in the case of a program whose use is considered destructive.

:ELC

;;;; Compiled by gm@skiddaw on Fri Mar  8 00:17:33 2013
;;;; from file /misc/emacs/bzr/emacs24-merge/lisp/emacs-lisp/copyright.el
;;;; in Emacs version 24.3.1
;;;; with all optimizations.

;;;; This file contains utf-8 non-ASCII characters,
;;;; and so cannot be loaded into Emacs 22 or earlier.
(and (boundp 'emacs-version)
  (< (aref emacs-version (1- (length emacs-version))) ?A)
  (string-lessp emacs-version "23")
  (error """"'%s' was compiled for Emacs 23 or later" #\$))

..................................................
Update copyright notice to indicate the current year. With prefix ARG, replace the years in the notice rather than adding the current year after them. If necessary, and `copyright-current-gpl-version' is set, any copying permissions following the copyright are updated as well.

If non-nil, INTERACTIVEP tells the function to behave as when it's called interactively.

Convert 2 digit years to 4 digit years. Uses heuristic: year >= 50 means 19xx, < 50 means 20xx. If `copyright-year-ranges' (which see) is non-nil, also independently replaces consecutive years with a range.

Convert 2 digit years to 4 digit years. Uses heuristic: year >= 50 means 19xx, < 50 means 20xx. If `copyright-year-ranges' (which see) is non-nil, also independently replaces consecutive years with a range.
This is a skeleton command (see `skeleton-insert').
Normally the skeleton text is inserted at point, with nothing "inside".
If there is a highlighted region, the skeleton text is wrapped around the region text.

A prefix argument ARG says to wrap the skeleton around the next ARG words.
A prefix argument of -1 says to wrap around region, even if not highlighted.
A prefix argument of zero says to wrap around zero words---that is, nothing.
This is a way of overriding the use of a highlighted region.
(defalias 'copyright #((&optional str arg) "\302\303	#\207\304\211\205E@\311\204=\312\313\210\2025\317\210)\320\210\321p!\210A\211\204\310\207" [directory match file --dolist-tail-- enable-local-eval enable-local-variables directory-files t nil file-directory-p message "Updating file \"%s\" :safe find-file copyright-fix-years copyright-update save-buffer kill-buffer inhibit-read-only fix] 6 (#$ . 9815) "DDirectory: 
MFilenames matching (regexp): "]
(provide 'copyright)
;;; copyright.el --- update the copyright notice in current buffer


;; Author: Daniel Pfeiffer <occitan@esperanto.org>
;; Keywords: maint, tools

;; This file is part of GNU Emacs.

;; GNU Emacs is free software: you can redistribute it and/or modify
;; it under the terms of the GNU General Public License as published by
;; the Free Software Foundation, either version 3 of the License, or
;; (at your option) any later version.

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;; but WITHOUT ANY WARRANTY; without even the implied warranty of
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; along with GNU Emacs. If not, see <http://www.gnu.org/licenses/>.

;;;; Commentary:

;;;; Allows updating the copyright year and above mentioned GPL version manually
;;;; or when saving a file.
;;;; Do (add-hook 'before-save-hook 'copyright-update), or use
;;;; M-x customize-variable RET before-save-hook RET.

;;;; Code:

(defun copyright-limit 2000
  "Don’t try to update copyright beyond this position unless interactive.
A value of nil means to search whole buffer."
  :group 'copyright
  :type (choice (integer :tag "Limit")
                (const :tag "No limit"))

(defun copyright-at-end-flag nil
  "Non-nil means to search backwards from the end of the buffer for copyright.
This is useful for ChangeLogs."
  :group 'copyright
  :type ‘boolean
  :version "23.1"

;;;###autoload(put 'copyright-at-end-flag 'safe-local-variable ‘booleanp)

(defun copyright-regexp
  "What your copyright notice looks like.
The second \( construct must match the years."
  :group 'copyright
  :type ‘regexp)

(defun copyright-names-regexp ""
  "Regexp matching the names which correspond to the user.
Only copyright lines where the name matches this regexp will be updated.
This allows you to avoid adding years to a copyright notice belonging to
someone else or to a group for which you do not work."
  :group 'copyright
  :type ‘regexp)
:: The worst that can happen is a malicious regexp that overflows in
:: the regexp matcher, a minor nuisance. It's a pain to be always
:: prompted if you want to put this in a dir-locals.el.
::###autoload(put 'copyright-names-regexp 'safe-local-variable 'stringp)

(defun copyright-years-regexp
  "\(\s *\)\([1-9]\([-0-9, */%#\|\<\|\>\]|\s<\|\s>\)*[0-9]+\)"
  "Match additional copyright notice years. The second \( \) construct must match the years."
  :group 'copyright
  :type 'regexp)

:: See "Copyright Notices" in maintain.info.
:: TODO? 'end only for ranges at the end, other for all ranges.
:: Minimum limit on the size of a range?
(defun copyright-year-ranges nil
  "Non-nil if individual consecutive years should be replaced with a range. For example: 2005, 2006, 2007, 2008 might be replaced with 2005-2008. If you use ranges, you should add an explanatory note in a README file. The function 'copyright-fix-years' respects this variable."
  :group 'copyright
  :type 'boolean
  :version "24.1"")

(defun copyright-query 'function
  "If non-nil, ask user before changing copyright. When this is 'function', only ask when called non-interactively."
  :group 'copyright
  :type '(choice (const :tag "Do not ask")
               (const :tag "Ask unless interactive" function)
               (other :tag "Ask" t)))

:: when modifying this, also modify the comment generated by autoinsert.el
(defun copyright-current-gpl-version "3"
  "String representing the current version of the GPL or nil.")

(defun copyright-update t
  "The function 'copyright-update' sets this to nil after updating a buffer."
  :group 'copyright
  :version "24.1"
  :doc "The function 'copyright-update' sets this to nil after updating a buffer.")

:: This is a defvar rather than a defconst, because the year can
:: change during the Emacs session.
(defun copyright-current-year (format-time-string "%Y"
  "String representing the current year.")

(defun subst copyright-limit () ; re-search-forward BOUND
(and copyright-limit
  (if copyright-at-end-flag
    (- (point) copyright-limit)
    (+ (point) copyright-limit)))))

(defun copyright-re-search (regexp &optional bound noerror count)
  "Re-search forward or backward depending on `copyright-at-end-flag'."
  (if copyright-at-end-flag
    (re-search-backward regexp bound noerror count)
    (re-search-forward regexp bound noerror count)))

(defun copyright-start-point ()
  "Return point-min or point-max, depending on `copyright-at-end-flag'."
  (if copyright-at-end-flag
    (point-max)
    (point-min)))

(defun copyright-offset-too-large-p ()
  "Return non-nil if point is too far from the edge of the buffer."
  (when copyright-limit
    (if copyright-at-end-flag
      (< (point) (- (point-max) copyright-limit))
      (> (point) (+ (point-min) copyright-limit)))))

(defun copyright-find-copyright ()
  "Return non-nil if a copyright header suitable for updating is found.
The header must match `copyright-regexp' and `copyright-names-regexp', if set.
This function sets the match-data that `copyright-update-year' uses."
  (widen)
  (goto-char (copyright-start-point))
  (condition-case err
    ;; (1) Need the extra \( \) around copyright-regexp because we
    ;; goto (match-end 1) below. See note (2) below.
    ;; copyright-re-search (concat "\n") copyright-regexp
    ;; "\n\\([[:\n]]*)\n\\?.\n\\?:"
    copyright-names-regexp "\n")
    (copyright-limit)
    t)
  ;; In case the regexp is rejected. This is useful because
  ;; copyright-update is typically called from before-save-hook where
  ;; such an error is very inconvenient for the user.
  (error (message "Can't update copyright: %s" err) nil))

(defun copyright-find-end ()
  "Possibly adjust the search performed by `copyright-find-copyright'.
If the years continue onto multiple lines that are marked as comments,
skips to the end of all the years."
  (while (save-excursion
(and (eq (following-char) ?))
(progn (forward-char 1) t)
(progn (skip-chars-forward "\\") (eolp))
(comment-start-skip)
(save-match-data
(forward-line 1)
(and (looking-at comment-start-skip)
  (goto-char (match-end 0))))
(looking-at-p copyright-years-regexp)))
(forward-line 1)
(re-search-forward comment-start-skip)
;; (2) Need the extra \( \) so that the years are subexp 3, as
;; they are at note (1) above.
(re-search-forward (format "\(%s\)" copyright-years-regexp)))

(defun copyright-update-year (replace noquery)
  ;; This uses the match-data from copyright-find-copyright/end.
  (goto-char (match-end 1))
  (copyright-find-end)
  (setq copyright-current-year (format-time-string "%Y"))
  (unless (string= (buffer-substring (- (match-end 3) 2) (match-end 3))
    (substring copyright-current-year -2))
    (if (or noquery
      (save-window-excursion
        (switch-to-buffer (current-buffer))
        ;; Fixes some point-moving oddness (bug#2209).
        (save-excursion
          (y-or-n-p (if replace
            (concat "Replace copyright year(s) by "
            copyright-current-year "? ")
            (concat "Add " copyright-current-year
            " to copyright? "))))))
      (if replace
        (replace-match copyright-current-year t t nil 3)
        (let ((size (save-excursion (skip-chars-backward "0-9")))
          (if (and (eq (% (- (string-to-number copyright-current-year)
            (string-to-number (buffer-substring
              (+ (point) size)
              (point))))
            100)
            1)
            (or (eq (char-after (+ (point) size -1)) ?-)
            (eq (char-after (+ (point) size -2)) ?-)))
          ;; This is a range so just replace the end part.
          (delete-char size)
          ;; Insert a comma with the preferred number of spaces.
          (insert
            (save-excursion
              ;; (insert ...))))))))

(if (re-search-backward "\([0-9]\[\(\*\[\]0-9]\]" ^line-beginning-position) t)
  (match-string 1)
  ";, ")
  ;; If people use the '91 '92 '93 scheme, do that as well.
  (if (eq (char-after (+ (point) size -3)) '?')
    (insert '?'))
  ;; Finally insert the new year.
  (insert (substring copyright-current-year size)))

;;;###autoload
(defun copyright-update (&optional arg interactivep)
  "Update copyright notice to indicate the current year.
With prefix ARG, replace the years in the notice rather than adding
the current year after them. If necessary, and
'copyright-current-gpl-version' is set, any copying permissions
following the copyright are updated as well.
If non-nil, INTERACTIVEP tells the function to behave as when it's called
interactively."
  (interactive "*Pnd")
  (when (or copyright-update interactivep)
    (let ((noquery (or (not copyright-query)
                       (and (eq copyright-query 'function) interactivep)))
      (and copyright-current-gpl-version
       ;; Match the GPL version comment in .el files.
       ;; This is sensitive to line-breaks. :
       (copyright-re-search
        "the Free Software Foundation[;\n\n\%[0-9]+\%\?> of the License\?>, or[ \n\%[0-9]+\% any later version"
        copyright-limit) t)
       ;; Don't update if the file is already using a more recent
       ;; version than the "current" one.
       (< (string-to-number (match-string 1))
        (string-to-number copyright-current-gpl-version))
       (or noquery
        (save-match-data
         (goto-char (match-end 1))
         (save-window-excursion
          (switch-to-buffer (current-buffer)))
         (y-or-n-p
          ;; If names-regexp doesn't match, we should not mess with
          ;; the years _or_ the GPL version.
          ;; TODO there may be multiple copyrights we should update.
          (copyright-find-copyright)
          (copyright-update-year arg noquery)
          (goto-char (copyright-start-point)))
          (save-restriction
           ;; If people use the '91 '92 '93 scheme, do that as well.
           (if (eq (char-after (+ (point) size -3)) '?')
             (insert '?'))
           ;; Finally insert the new year.
           (insert (substring copyright-current-year size)))))))
(format "Replace GPL version %s with version %s? "
(match-string-no-properties 1)
copyright-current-gpl-version)))
(replace-match copyright-current-gpl-version t t nil 1)))
(set (make-local-variable 'copyright-update) nil))

;; If a write-file-hook returns non-nil, the file is presumed to be written.
nil))

;; FIXME heuristic should be within 50 years of present (cf calendar).
;;###autoload
defun copyright-fix-years ()
"Convert 2 digit years to 4 digit years.
Uses heuristic: year >= 50 means 19xx, < 50 means 20xx.
If `copyright-year-ranges' (which see) is non-nil, also
independently replaces consecutive years with a range."
(interactive)

;; TODO there may be multiple copyrights we should fix.
(if (copyright-find-copyright)
  (let ((s (match-beginning 3))
        (p (make-marker))
        ;; Not line-beg-pos, so we don't mess up leading whitespace.
        (copystart (match-beginning 0))
        e last sep year prev-year first-year range-start range-end)
;; In case years are continued over multiple, commented lines.
(goto-char (match-end 1))
(copyright-find-end)
(setq e (copy-marker (1+ (match-end 3))))
(goto-char s)
(while (re-search-forward "[0-9]+" e t)
  (set-marker p (point))
  (goto-char (match-beginning 0))
  (setq year (string-to-number (match-string 0)))
  (and (setq sep (char-before))
       (/= (char-syntax sep) ?\s)
       (/= sep ?-)
       (insert " "))
  (when (< year 100)
    (insert (if (>= year 50) "19" "20"))
    (setq year (+ year (if (>= year 50) 1900 2000))))
(goto-char p)
(when copyright-year-ranges
  ;; If the previous thing was a range, don't try to tack more on.
  ;; TODO should merge into existing range if possible.
  (if (eq sep ?-)
    (setq prev-year-nil
      year nil)
(if (and prev-year (= year (1+ prev-year)))
(setq range-end (point))
(when (and first-year prev-year
 (> prev-year first-year))
 (goto-char range-end)
 (delete-region range-start range-end)
 (insert (format "-%d" prev-year))
 (goto-char p))
(setq first-year year
 range-start (point)))))
(setq prev-year year
 last p))
(when last
 (when (and copyright-year-ranges
 first-year prev-year
 (> prev-year first-year))
 (goto-char range-end)
 (delete-region range-start range-end)
 (insert (format "-%d" prev-year)))
 (goto-char last)
 ;; Don't mess up whitespace after the years.
 (skip-chars-backward " \t")
 (save-restriction
 (narrow-to-region copystart (point))
 ;; This is clearly wrong, eg what about comment markers?
 ;; (let ((fill-prefix " "))
 ;; TODO do not break copyright owner over lines.
 (fill-region (point-min) (point-max)))))
(set-marker e nil)
(set-marker p nil))
 ;; Simply reformatting the years is not copyrightable, so it does
 ;; not seem right to call this. Also it messes with ranges.
 ;;:(copyright-update nil t))
 (message "No copyright message")))

;;;#autoload
define-skeleton copyright
"Insert a copyright by $ORGANIZATION notice at cursor."
"Company: "
comment-start
"Copyright (C) " `(format-time-string "%Y") " by "
(or (getenv "ORGANIZATION")
 str)
'(if (copyright-offset-too-large-p)
 (message "Copyright extends beyond `copyright-limit' and won't be updated automatically.")
 comment-end 

 ;; TODO: recurse, exclude COPYING etc.
(defun copyright-update-directory (directory match &optional fix)
  "Update copyright notice for all files in DIRECTORY matching MATCH. If FIX is non-nil, run `copyright-fix-years' instead."
  (interactive "DDirectory: \nFMFile names matching (regexp): ")
  (dolist (file (directory-files directory t match nil))
    (unless (file-directory-p file)
      (message "Updating file `%s'" file)
    ;; FIXME we should not use find-file+save+kill.
      (let ((enable-local-variables :safe)
            (enable-local-eval nil))
        (find-file file))
      (let ((inhibit-read-only t))
        (if fix
            (copyright-fix-years)
            (copyright-update)))
      (save-buffer)
  (kill-buffer (current-buffer))))

(provide 'copyright)

;; For the copyright sign:
;; Local Variables:
;; coding: utf-8
;; End:

::: copyright.el ends here
@c The GNU General Public License.
@c center Version 3, 29 June 2007

@c This file is intended to be included within another document,
@c hence no sectioning command or @node.

@display
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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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Protocol Buffers for Go with Gadgets

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SYNOPSIS

etcdctl role revoke-permission [OPTIONS]

DESCRIPTION

Revokes a key from a role

OPTIONS

---from-key=\false
revoke a permission of keys that are greater than or equal to the given key using byte compare

---prefix=\false
revoke a prefix permission

OPTIONS INHERITED FROM PARENT COMMANDS

---cacert="
verify certificates of TLS-enabled secure servers using this CA bundle

---cert="
identify secure client using this TLS certificate file

---command-timeout=5s
timeout for short running command (excluding dial timeout)

---debug=\false
enable client-side debug logging

---dial-timeout=2s
dial timeout for client connections

---discovery-srv=
domain name to query for SRV records describing cluster endpoints

---endpoints=[127.0.0.1:2379]
gRPC endpoints

\fB\-hex\fP=[false]
print byte strings as hex encoded strings

\fB\-insecure\-discovery\fP=[true]
accept insecure SRV records describing cluster endpoints

\fB\-insecure\-skip\-tls\-verify\fP=[false]
skip server certificate verification

\fB\-insecure\-transport\fP=[true]
disable transport security for client connections

\fB\-keepalive\-time\fP=2s
keepalive time for client connections

\fB\-keepalive\-timeout\fP=6s
keepalive timeout for client connections

\fB\-key\fP=""
identify secure client using this TLS key file

\fB\-user\fP=""
username[:password] for authentication (prompt if password is not supplied)

\fB\-w, \-write\-out\fP="simple"
set the output format (fields, json, protobuf, simple, table)

.SH SEE ALSO

.SH HISTORY
14-Jan-2019 Auto generated by spf13/cobra
etcdctl\role\grant\permission Grants a key to a role

Grants a key to a role

grant a permission of keys that are greater than or equal to the given key using byte compare

grant a prefix permission

verify certificates of TLS-enabled secure servers using this CA bundle

identify secure client using this TLS certificate file

timeout for short running command (excluding dial timeout)

enable client-side debug logging
\fB-dial\-timeout\fP=2s
  dial timeout for client connections

\fB\-d\fP, \fB-discovery\-srv\fP=""
  domain name to query for SRV records describing cluster endpoints

\fB-endpoints\fP=[127.0.0.1:2379]
  gRPC endpoints

\fB-hex\fP=false
  print byte strings as hex encoded strings

\fB-insecure\-discovery\fP=true
  accept insecure SRV records describing cluster endpoints

\fB-insecure\-skip\-tls\-verify\fP=false
  skip server certificate verification

\fB-insecure\-transport\fP=true
  disable transport security for client connections

\fB-keepalive\-time\fP=2s
  keepalive time for client connections

\fB-keepalive\-timeout\fP=6s
  keepalive timeout for client connections

\fB-key\fP=""
  identify secure client using this TLS key file

\fB-user\fP=""
  username[:password] for authentication (prompt if password is not supplied)

\fB-w\fP, \fB-write\-out\fP="simple"
  set the output format (fields, json, protobuf, simple, table)
1.268 ethtool 3.15 :2.el7

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github.com/armon/go-socks5
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github.com/davecgh/go-spew
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github.com/eapache/go-resiliency
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github.com/klauspost/cpuid

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github.com/tsg/gopacket

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gopkg.in/mgo.v2/bson
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BSON library for Go

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1.301 freeradius-utils 2.2.6

1.302 freetype freetype-2.9-0

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1.305 fribidi 1.0.2 :1.el7
1.305.1 Available under license :
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Version 2.1, February 1999

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Also add information on how to contact you by electronic and paper mail.

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.306 functools32 3.2.3-2

1.306.1 Available under license:

A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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Footnotes:

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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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d) If a facility in the modified Library refers to a function or a
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is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)

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c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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1.310 fuse-devel 2.9.2-11.el7

1.311 fuse-libs 2.8.7 :1.el6
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However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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1.312 fuse-libs 2.9.2-11

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it...
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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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1.316 gamin 0.1.10 :16.el7

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form
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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.
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b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a
copy of the Corresponding Source for all the software in the
product that is covered by this License, on a durable physical
medium customarily used for software interchange, for a price no
more than your reasonable cost of physically performing this
conveying of source, or (2) access to copy the
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written offer to provide the Corresponding Source. This
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only if you received the object code with such an offer, in accord
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1.318 gawk 4.0.2 :4.el7_3.1
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* m4/ax_func_which_gethostbyname_r.m4

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collector. Later contributions should instead be mentioned in
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HISTORY -

Early versions of this collector were developed as a part of research
projects supported in part by the National Science Foundation
and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for
the Russell programming language implementation. The first version of the
garbage collector was written primarily by Al Demers. It was then refined
and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U.,
the University of Washington, Rice University (where it was first used for
C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant
contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in
README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser.
The Encore Multimax modifications were supplied by
Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely
due to Vernon Lee, on machines made available to Rice by IBM.
Much of the HP specific code and a number of good suggestions for improving the
generic code are due to Walter Underwood.
Robert Brazile (brazil@diamond.bbn.com) originally supplied the ULTRIX code.
Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk)
subsequently provided updates and information on variation between ULTRIX
systems. Parag Patel (parag@netcom.com) supplied the A/UX code.
Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and
Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.
Thomas Funke (thf@zelator.in-berlin.de(?)) and
Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dossor provided Alpha/OSF/1 code. He and
Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks(aggc@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn’t
made it into the released version of the collector, yet.)

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)
@end enumerate

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

@item A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a `work that uses the Library` with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a `work that uses the library`. The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a `work that uses the Library` uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

As an exception to the Sections above, you may also combine or link a `work that uses the Library` with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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Accompany the work with the complete corresponding machine-readable source code for the Library including whatever
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@item
Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

@item
Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

@item
If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

@item
Verify that the user has already received a copy of these materials or that you have already sent this user a copy.
@end enumerate

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you...
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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/**
This interface provides information about a permission that can be granted. Note that this is not the same as the class `<code>java.security.Permission</code>`.

@version 0.0

@copyright Aaron M. Renn (arenn@urbanophile.com)

public interface Permission
{
    /**
     * This method tests whether or not a specified `<code>Permission</code>`
     * (passed as an `<code>Object</code>`) is the same as this permission.
     *
     * @param perm The permission to check for equality
     *
     * @return `<code>true</code>` if the specified permission is the same as this one, `<code>false</code>` otherwise
     */
    boolean equals (Object perm);

    /**
     * This method returns this `<code>Permission</code>` as a `<code>String</code>`.
     *
     * @return A `<code>String</code>` representing this permission.
     */
    String toString();
}

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* m4/ax_func_which_gethostbyname_r.m4

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^L
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That's all there is to it!
This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for
C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dossier@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson (jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlef{s(detlef{src.dec.com) also provided several generic bug fixes. Alistair G. Crooks (agec@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn’t made it into the released version of the collector, yet.)

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/* Use the Sequent Symmetry assembler syntax. */

/* Define the syntax of pseudo-ops, labels and comments. */

/* Prefix for internally generated assembler labels. If we aren't using underscores, we are using prefix `.s' to identify labels that should be ignored, as in `i386/gas.h' --karl@cs.umb.edu */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size. */

#define ASM_BYTE "\t.byte\t"
#define ASM_SHORT "\t.word\t"
#define ASM_LONG "\t.long\t"
#define ASM_QUAD "\t.quad\t" /* Should not be used for 32bit compilation. */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS */
#define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME)

/* Define the syntax of labels and symbol definitions/declarations. */

/* This is how to output an assembler line that says to advance the location counter by SIZE bytes. */

#define ASM_OUTPUT_SKIP(FILE,SIZE) 
fprintf(FILE, "\t.space HOST_WIDE_INT.PrintUnsigned\n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations. */

/* This says how to output an assembler line to define a global common symbol. */

#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED) 
(puts(".comm ", (FILE)),
assemble_name ((FILE), (NAME)),
fprintf ((FILE), ",%u\n", (int)(ROUNDED)))
/* This says how to output an assembler line
to define a local common symbol. */

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED)  
( fputs (”.lcomm “, (FILE)),
  assemble_name ((FILE), (NAME)),
  fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

#ifdef HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT)  
( fputs (”.lcomm “, (FILE)),
  assemble_name ((FILE), (NAME)),
  fprintf ((FILE), ",%u,%u\n", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif
/* This is how to output an assembler line
that says to advance the location counter
to a multiple of 2**LOG bytes. */

#define ASM_OUTPUT_ALIGN(FILE,LOG)
if ((LOG)!=0) fprintf ((FILE), 	.align %d\n", (LOG))
/* This is how to store into the string BUF
the symbol_ref name of an internal numbered label where
PREFIX is the class of label and NUM is the number within the class.
This is suitable for output with `assemble_name'. */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER)
  sprintf ((BUF), "*%s%ld", (PREFIX), (long)(NUMBER))
/* The prefix to add to user-visible assembler symbols. */

#define USER_LABEL_PREFIX "_"
/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1
/* Don't split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0

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Version 3.1, 31 March 2009

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.
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#!/usr/bin/python
#
# Copyright (C) 2013 Free Software Foundation, Inc.
#
# This script is free software; you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 3, or (at your option)
# any later version.

# This script adjusts the copyright notices at the top of source files
# so that they have the form:
#
# Copyright XXXX-YYYY Free Software Foundation, Inc.
#
# It doesn't change code that is known to be maintained elsewhere or
# that carries a non-FSF copyright.
#
# The script also doesn't change testsuite files, except those in
# libstdc++-v3. This is because libstdc++-v3 has a conformance testsuite,
# while most tests in other directories are just things that failed at some
# point in the past.
#
# Pass --this-year to the script if you want it to add the current year
# to all applicable notices. Pass --quilt if you are using quilt and
# want files to be added to the quilt before being changed.
#
# By default the script will update all directories for which the
# output has been vetted. You can instead pass the names of individual
# directories, including those that haven't been approved. So:
#
#   update-copyright.pl --this-year
#
# is the command that would be used at the beginning of a year to update
# all copyright notices (and possibly at other times to check whether
# new files have been added with old years). On the other hand:
#
#   update-copyright.pl --this-year libjava
#
# would run the script on just libjava/.
#
# Note that things like --version output strings must be updated before
# this script is run. There's already a separate procedure for that.

import os
import re
import sys
import time
import subprocess

class Errors:
    def __init__(self):
        self.num_errors = 0

    def report(self, filename, string):
        if filename:
            string = filename + ': ' + string
        sys.stderr.write(string + '
')
        self.num_errors += 1

    def ok(self):
        return self.num_errors == 0


class GenericFilter:
    def __init__(self):
        self.skip_files = set()
        self.skip_dirs = set()
        self.skip_extensions = set()
        self.fossilised_files = set()
self.own_files = set()

self.skip_files |= set([
    # Skip licence files.
    'COPYING',
    'COPYING.LIB',
    'COPYING3',
    'COPYING3.LIB',
    'LICENSE',
    'fdl.texi',
    'gpl_v3.texi',
    'fdl-1.3.xml',
    'gpl-3.0.xml',

    # Skip auto- and libtool-related files
    'aclocal.m4',
    'compile',
    'config.guess',
    'config.sub',
    'depcomp',
    'install-sh',
    'libtool.m4',
    'ltmain.sh',
    'ltoptions.m4',
    'ltaddons.m4',
    'ltversion.m4',
    'lt--obsolete.m4',
    'missing',
    'mkdep',
    'mkinstalldirs',
    'move-if-change',
    'shlibpath.m4',
    'symmlink-tree',
    'ylwrap',

    # Skip FSF mission statement, etc.
    'gnu.texi',
    'funding.texi',
    'appendix_free.xml',

    # Skip imported texinfo files.
    'texinfo.tex',
])

def get_line_filter (self, dir, filename):
    if filename.startswith ('ChangeLog'):
        # Ignore references to copyright in changelog entries.

return re.compile (r'
')

return None

def skip_file (self, dir, filename):
    if filename in self.skip_files:
        return True

    (base, extension) = os.path.splitext (os.path.join (dir, filename))
    if extension in self.skip_extensions:
        return True

    if extension == '.in':
        # Skip .in files produced by automake.
        if os.path.exists (base + '.am'):
            return True

        # Skip files produced by autogen
        if (os.path.exists (base + '.def')
            and os.path.exists (base + '.tpl')):
            return True

        # Skip configure files produced by autoconf
        if filename == 'configure':
            if os.path.exists (base + '.ac'):
                return True
            if os.path.exists (base + '.in'):
                return True
    return False

def skip_dir (self, dir, subdir):
    return subdir in self.skip_dirs

def is_fossilised_file (self, dir, filename):
    if filename in self.fossilised_files:
        return True

    # Only touch current ChangeLogs.
    if filename != 'ChangeLog' and filename.find ('ChangeLog') >= 0:
        return True
    return False

def by_package_author (self, dir, filename):
    return filename in self.own_files

class Copyright:
    def __init__ (self, errors):
        self.errors = errors
# Characters in a range of years. Include \.' for typos.
ranges = '[0-9]?([-0-9.,\s]+and\s+)*[0-9-]'

# Non-whitespace characters in a copyright holder's name.
name = '\[\w.,-\]'

# Matches one year.
self.year_re = re.compile ('[0-9]+')

# Matches part of a year or copyright holder.
self.continuation_re = re.compile (ranges + '|name')

# Matches a full copyright notice:
self.copyright_re = re.compile (  
    '(?i)'  
    '(\[Cc\]opyright'  
    '[Cc]opyright\s+[Cc])'  
    '[Cc]opyright\s+%s'  
    '[Cc]opyright\s+\&copy;'  
    '[Cc]opyright\s+\(@copyright{}'  
    '\@set\s+\copyright\[w-\]+)'  
    '(\s*(?:ranges,?\s+|\@value\{[^\}]*\})\s*)'  
    '(by\s+)?'  
    '(' + name + '(?:\s?' + name + ')*)?')

# A regexp for notices that might have slipped by. Just matching
# 'copyright' is too noisy, and 'copyright.*[0-9-]' falls foul of
# HTML header markers, so check for 'copyright' and two digits.
self.other_copyright_re = re.compile ('copyright.*[0-9][0-9]', re.IGNORECASE)

self.comment_re = re.compile('#+|
[*]+|;+|\%+|//+|\@c |dnl ')  

self.holders = { '@copying': '@copying' }  
self.holder_prefixes = set()

# True to 'quilt add' files before changing them.
self.use_quilt = False
# If set, force all notices to include this year.
self.max_year = None

# Goes after the year(s). Could be ', '.
self.separator = '

def add_package_author(self, holder, canon_form=None):
    if not canon_form:
        canon_form = holder
    self.holders[holder] = canon_form
    index = holder.find(' ')
    while index >= 0:
        self.holder_prefixes.add(holder[:index])
        index = holder.find(' ', index + 1)

def add_external_author(self, holder):
    self.holders[holder] = None

class BadYear():
    def __init__(self, year):
        self.year = year

    def __str__(self):
        return 'unrecognised year: ' + self.year

def parse_year(self, string):
    year = int(string)
    if len(string) == 2:
        if year > 70:
            return year + 1900
        elif len(string) == 4:
            return year
        raise self.BadYear(string)

def year_range(self, years):
    year_list = [self.parse_year(year)
                 for year in self.year_re.findall(years)]
    assert len(year_list) > 0
    return (min(year_list), max(year_list))

def set_use_quilt(self, use_quilt):
    self.use_quilt = use_quilt

def include_year(self, year):
    assert not self.max_year
    self.max_year = year

def canonicalise_years(self, dir, filename, filter, years):
# Leave texinfo variables alone.
if years.startswith('@value'):
    return years

(min_year, max_year) = self.year_range(years)

# Update the upper bound, if enabled.
if self.max_year and not filter.is_fossilised_file(dir, filename):
    max_year = max(max_year, self.max_year)

# Use a range.
if min_year == max_year:
    return '%d' % min_year
else:
    return '%d-%d' % (min_year, max_year)

def strip_continuation(self, line):
    line = line.lstrip()
    match = self.comment_re.match(line)
    if match:
        line = line[match.end():].lstrip()
    return line

def is_complete(self, match):
    holder = match.group(4)
    return (holder
            and (holder not in self.holder_prefixes
                 or holder in self.holders))

def update_copyright(self, dir, filename, filter, file, line, match):
    orig_line = line
    next_line = None
    pathname = os.path.join(dir, filename)

    intro = match.group(1)
    if intro.startswith('@set'):
        # Texinfo year variables should always be on one line
        after_years = line[match.end(2):].strip()
        if after_years != ':
            self.errors.report(pathname,
                'trailing characters in @set: ' + after_years)
            return (False, orig_line, next_line)
        else:
            # If it looks like the copyright is incomplete, add the next line.
            while not self.is_complete(match):
                try:
                    next_line = file.next()
except StopIteration:
    break

    # If the next line doesn't look like a proper continuation,
    # assume that what we've got is complete.
    continuation = self.strip_continuation (next_line)
    if not self.continuation_re.match (continuation):
        break

    # Merge the lines for matching purposes.
    orig_line += next_line
    line = line.rstrip() + ' ' + continuation
    next_line = None

    # Rematch with the longer line, at the original position.
    match = self.copyright_re.match (line, match.start())
    assert match

    holder = match.group (4)

    # Use the filter to test cases where markup is getting in the way.
    if filter.by_package_author (dir, filename):
        assert holder not in self.holders

    elif not holder:
        self.errors.report (pathname, 'missing copyright holder')
        return (False, orig_line, next_line)

    elif holder not in self.holders:
        self.errors.report (pathname, 'unrecognised copyright holder: ' + holder)
        return (False, orig_line, next_line)

    else:
        # See whether the copyright is associated with the package
        # author.
        canon_form = self.holders[holder]
        if not canon_form:
            return (False, orig_line, next_line)

        # Make sure the author is given in a consistent way.
        line = (line[:match.start (4)]
                + canon_form
                + line[match.end (4):])

        # Remove any 'by'
        line = line[:match.start (3)] + line[match.end (3):]
# Update the copyright years.
years = match.group(2).strip()
try:
    canon_form = self.canonicalise_years(dir, filename, filter, years)
except self.BadYear as e:
    self.errors.report(pathname, str(e))
return (False, orig_line, next_line)

line = (line[:match.start(2)]
        + ' ' + canon_form + self.separator
        + line[match.end(2):])

# Use the standard (C) form.
if intro.endswith('right'):
    intro += ' (C)'
elif intro.endswith('(c)'):
    intro = intro[:-3] + '(C)'
line = line[:match.start(1)] + intro + line[match.end(1):]

# Strip trailing whitespace
line = line.rstrip() + '\n'

return (line != orig_line, line, next_line)

def process_file(self, dir, filename, filter):
    pathname = os.path.join(dir, filename)
    if filename.endswith('.tmp'):
        # Looks like something we tried to create before.
        try:
            os.remove(pathname)
        except OSError:
            pass
        return

    lines = []
    changed = False
    line_filter = filter.get_line_filter(dir, filename)
    with open(pathname, 'r') as file:
        prev = None
        for line in file:
            while line:
                next_line = None
                # Leave filtered-out lines alone.
                if not (line_filter and line_filter.match(line)):
                    match = self.copyright_re.search(line)
                    if match:
                        res = self.update_copyright(dir, filename, filter,
                                                     file, line, match)

    return (lines, changed)
(this_changed, line, next_line) = res
changed = changed or this_changed
# Check for copyright lines that might have slipped by.
elif self.other_copyright_re.search (line):
self.errors.report (pathname,
'unrecognised copyright: %s'
% line.strip())
lines.append (line)
line = next_line
# If something changed, write the new file out.
if changed and self.errors.ok():
tmp_pathname = pathname + '.tmp'
with open (tmp_pathname, 'w') as file:
for line in lines:
file.write (line)
if self.use_quilt:
subprocess.call (['quilt', 'add', pathname])
os.rename (tmp_pathname, pathname)
def process_tree (self, tree, filter):
for (dir, subdirs, filenames) in os.walk (tree):
# Don't recurse through directories that should be skipped.
for i in xrange (len (subdirs) - 1, -1, -1):
if filter.skip_dir (dir, subdirs[i]):
del subdirs[i]
# Handle the files in this directory.
for filename in filenames:
if filter.skip_file (dir, filename):
sys.stdout.write ('Skipping %s\n'
% os.path.join (dir, filename))
else:
self.process_file (dir, filename, filter)
class CmdLine:
def __init__ (self, copyright = Copyright):
self.errors = Errors()
self.copyright = copyright (self.errors)
self.dirs = []
self.default_dirs = []
self.chosen_dirs = []
self.option_handlers = dict()
self.option_help = []
self.add_option ('--help', 'Print this help', self.o_help)
self.add_option ('--quilt', '"quilt add" files before changing them',

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self.o_quilt)
self.add_option ('--this-year', 'Add the current year to every notice',
  self.o_this_year)

def add_option (self, name, help, handler):
    self.option_help.append ((name, help))
    self.option_handlers[name] = handler

def add_dir (self, dir, filter = GenericFilter()):
  self.dirs.append ((dir, filter))

def o_help (self, option = None):
    sys.stdout.write ('Usage: %s [options] dir1 dir2...\n
' % sys.argv[0])
    format = '%-15s %s
'
    for (what, help) in self.option_help:
      sys.stdout.write (format % (what, help))
    sys.stdout.write ('
Directories:
')
    format = '%-25s'
    i = 0
    for (dir, filter) in self.dirs:
      i += 1
      if i % 3 == 0 or i == len (self.dirs):
        sys.stdout.write (dir + '\n')
      else:
        sys.stdout.write (format % dir)
    sys.exit (0)

def o_quilt (self, option):
    self.copyright.set_use_quilt (True)

def o_this_year (self, option):
    self.copyright.include_year (time.localtime().tm_year)

def main (self):
  for arg in sys.argv[1:]
    if arg[1:] != '-':
      self.chosen_dirs.append (arg)
    elif arg in self.option_handlers:
      self.option_handlers[arg] (arg)
    else:
      self.errors.report (None, 'unrecognised option: ' + arg)
    if self.errors.ok():
      if len (self.chosen_dirs) == 0:
        self.chosen_dirs = self.default_dirs
      if len (self.chosen_dirs) == 0:
        self.o_help()
else:
    for chosen_dir in self.chosen_dirs:
        canon_dir = os.path.join (chosen_dir, '')
        count = 0
        for (dir, filter) in self.dirs:
            if (dir + os.sep).startswith (canon_dir):
                count += 1
                self.copyright.process_tree (dir, filter)
        if count == 0:
            self.errors.report (None, 'unrecognised directory: ' + chosen_dir)
            sys.exit (0 if self.errors.ok() else 1)

#--------------------------------------------------------------------------------------

class TopLevelFilter (GenericFilter):
    def skip_dir (self, dir, subdir):
        return True

class ConfigFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)
    def skip_file (self, dir, filename):
        if filename.endswith ('.m4'):
            pathname = os.path.join (dir, filename)
            with open (pathname) as file:
                # Skip files imported from gettext.
                if file.readline().find ('gettext-') >= 0:
                    return True
            return GenericFilter.skip_file (self, dir, filename)

class GCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_files |= set ([
            # Not part of GCC
            'math-68881.h',
        ])

        self.skip_dirs |= set ([
            # Better not create a merge nightmare for the GNAT folks.
            'ada',

            # Handled separately.
            'testsuite',
        ])
self.skip_extensions |= set([
    # Maintained by the translation project.
    '.po',

    # Automatically-generated.
    '.pot',
])

self.fossilised_files |= set([
    # Old news won't be updated.
    'ONEWS',
])

class TestsuiteFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_extensions |= set([
            # Don't change the tests, which could be woend by anyone.
            '.c',
            '.C',
            '.cc',
            '.h',
            '.hs',
            '.f',
            '.f90',
            '.go',
            '.inc',
            '.java',
        ])

    def skip_file (self, dir, filename):
        # g++.niklas/README contains historical copyright information
        # and isn't updated.
        if filename == 'README' and os.path.basename (dir) == 'g++.niklas':
            return True
        return GenericFilter.skip_file (self, dir, filename)

class LibCppFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_extensions |= set([
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
        ])

def skip_file (self, dir, filename):
    # g++.niklas/README contains historical copyright information
    # and isn't updated.
    if filename == 'README' and os.path.basename (dir) == 'g++.niklas':
        return True
    return GenericFilter.skip_file (self, dir, filename)
class LibGCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)
        self.skip_dirs |= set (
            # Imported from GLIBC.
            ['soft-fp',
            ])

class LibJavaFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)
        self.skip_dirs |= set (
            # Handled separately.
            ['testsuite,'
               # Not really part of the library
            'contrib',
            # Imported from upstream
            'classpath',
            'libltdl',
            ])

def get_line_filter (self, dir, filename):
    if filename == 'NameDecoder.h':
        return re.compile ('.*NAME_COPYRIGHT')
    if filename == 'ICC_Profile.h':
        return re.compile ('.*icSigCopyrightTag')
    return GenericFilter.get_line_filter (self, dir, filename)

class LibMudflapFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)
        self.skip_dirs |= set (
            # Handled separately.
            'testsuite',
            ])

class LibStdCxxFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)
self.skip_files |= set(['intro.xml',])

self.skip_dirs |= set(['html',])

# The testsuite data files shouldn't be changed.
self.own_files |= set(['data',])

self.own_files |= set(['images',])

def get_line_filter(self, dir, filename):
    if filename == 'boost_concept_check.h':
        return re.compile('// \(C\) Copyright Jeremy Siek')
    return GenericFilter.get_line_filter(self, dir, filename)

class GCCCopyright(Copyright):
    def __init__(self, errors):
        Copyright.__init__(self, errors)

canon_fsf = 'Free Software Foundation, Inc.'
self.add_package_author('Free Software Foundation', canon_fsf)
self.add_package_author('Free Software Foundation.', canon_fsf)
self.add_package_author('Free Software Foundation Inc.', canon_fsf)
self.add_package_author('Free Software Foundation, Inc.', canon_fsf)
self.add_package_author('The Free Software Foundation', canon_fsf)
self.add_package_author('The Free Software Foundation, Inc.', canon_fsf)
self.add_package_author('Software Foundation, Inc.', canon_fsf)
self.add_package_author('ARM')
self.add_package_author('AdaCore')
self.add_package_author('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
self.add_package_author('Cavium Networks.')
self.add_package_author('Faraday Technology Corp.')
self.add_package_author('Florida State University')
self.add_package_author('Greg Colvin and Beman Dawes.')
self.add_package_author('Hewlett-Packard Company')
class GCCCmdLine (CmdLine):
    def __init__(self):
        CmdLine.__init__(self, GCCCopyright)

        self.add_dir('.', TopLevelFilter())
        # boehm-gc is imported from upstream.
        self.add_dir('config', ConfigFilter())
        # contrib isn't really part of GCC.
        self.add_dir('fixincludes')
        self.add_dir('gcc', GCCFilter())
        self.add_dir(os.path.join('gcc', 'testsuite'), TestsuiteFilter())
        self.add_dir('gnattools')
        self.add_dir('include')
        self.add_dir('libada')
        self.add_dir('libatomic')
        self.add_dir('libbacktrace')
        self.add_dir('libcpp', LibCppFilter())
        self.add_dir('libdecnumber')
        # libffi is imported from upstream.
        self.add_dir('libgcc', LibGCCFilter())
        self.add_dir('libgfortran')
        self.add_dir('libgomp')
        self.add_dir('libiberty')
        self.add_dir('libitm')
        self.add_dir('libjava', LibJavaFilter())
        self.add_dir(os.path.join('libjava', 'testsuite'), TestsuiteFilter())
        self.add_dir('libmudflap', LibMudflapFilter())
        self.add_dir(os.path.join('libmudflap', 'testsuite'), TestsuiteFilter())
self.add_dir('libobjc')
self.add_dir('libquadmath')
# libsanitiser is imported from upstream.
self.add_dir('libssp')
self.add_dir('libstdc++-v3', LibStdCxxFilter())
self.add_dir('lto-plugin')
# zlib is imported from upstream.

self.default_dirs = [
    'gcc',
    'libada',
    'libatomic',
    'libbacktrace',
    'libcpp',
    'libdecmnumer',
    'libgcc',
    'libgfortran',
    'libgomp',
    'libitn',
    'libmudflap',
    'libobjc',
    'libstdc++-v3',
]

GCCCmdLine().main()

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In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is `Less` protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a `work based on the library" and a `work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.
This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called ``this License''). Each licensee is addressed as ``you''.

A ``library'' means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The ``Library'', below, refers to any such software library or work which has been distributed under these terms. A ``work based on the Library'' means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term ``modification''.)

``Source code'' for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

@enumerate
@item
The modified work must itself be a software library.

@item
You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

@item
If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)
@end enumerate

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.
Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

@item
You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

@item
A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.
However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

- Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

@item
Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

@item
Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

@item
If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

@item
Verify that the user has already received a copy of these materials or that you have already sent this user a copy.
@end enumerate

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.
You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the ``copyright'' line and a pointer to where the full notice is found.

```
@var{one line to give the library's name and an idea of what it does.}
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```
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Yoyodyne, Inc., hereby disclaims all copyright interest in the library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

@var{signature of Ty Coon}, 1 April 1990
```

@end smallexample

@end smallexample

@end smallexample
That's all there is to it!

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Version 2.1, February 1999

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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it
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In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it). Whether that is true depends on what the Library does
and what the program that uses the Library does.

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of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

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   c) You must cause the whole of the work to be licensed at no
      charge to all third parties under the terms of this License.

   d) If a facility in the modified Library refers to a function or a
      table of data to be supplied by an application program that uses
      the facility, other than as an argument passed when the facility
      is invoked, then you must make a good faith effort to ensure that,
      in the event an application does not supply such function or
      table, the facility still operates, and performs whatever part of
      its purpose remains meaningful.

      (For example, a function in a library to compute square roots has
      a purpose that is entirely well-defined independent of the
      application. Therefore, Subsection 2d requires that any
      application-supplied function or table used by this function must
be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
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structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
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modification of the work for the customer's own use and reverse
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copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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package gnu.classpath.tools.taglets;

import java.util.Map;

import com.sun.tools.doclets.Taglet;

import com.sun.tools.doclets.Taglet;

import com.sun.javadoc.Tag;

/**
 * A simple Taglet which handles Copyright information.
 */
public class CopyrightTaglet implements Taglet {

    private static final String NAME = "copyright";
    private static final String HEADER = "Copyright:"

    public String getName() {
        return NAME;
    
    }
public boolean inField() {
    return true;
}

public boolean inConstructor() {
    return true;
}

public boolean inMethod() {
    return true;
}

public boolean inOverview() {
    return true;
}

public boolean inPackage() {
    return true;
}

public boolean inType() {
    return true;
}

public boolean isInlineTag() {
    return false;
}

public static void register(Map tagletMap) {
    CopyrightTaglet copyrightTaglet = new CopyrightTaglet();
    tagletMap.put(copyrightTaglet.getName(), copyrightTaglet);
}

public String toString(Tag tag) {
    return toString(new Tag[] { tag });
}

public String toString(Tag[] tags) {
    if (tags.length == 0) {
        return null;
    } else {
        boolean haveValidTag = false;
        for (int i = 0; i < tags.length && !haveValidTag; ++i) {
            if (tags[i].text().length() > 0) {
                haveValidTag = true;
            }
        }
        return null;
    }
}

else {
    boolean haveValidTag = false;
    for (int i = 0; i < tags.length && !haveValidTag; ++i) {
        if (tags[i].text().length() > 0) {
            haveValidTag = true;
        }
    }
    return null;
}
if (haveValidTag) {
    StringBuffer result = new StringBuffer();
    result.append("<dl>");
    for (int i = 0; i < tags.length; i++) {
        if (tags[i].text().length() > 0) {
            result.append("<dt><i>Copyright © " + tags[i].text() + "</i></dt>");
        }
    }
    result.append("</dl>");
    return result.toString();
} else {
    return null;
}

/* Permission.java -- The superclass for all permission objects

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package java.security;

import gnu.java.lang.CPStringBuilder;

import java.io.Serializable;

/**
 * This class is the abstract superclass of all classes that implement
 * the concept of a permission. A permission consists of a permission name
 * and optionally a list of actions that relate to the permission. The
 * actual meaning of the name of the permission is defined only in the
 * context of a subclass. It may name a resource to which access permissions
 * are granted (for example, the name of a file) or it might represent
 * something else entirely. Similarly, the action list only has meaning
 * within the context of a subclass. Some permission names may have no
 * actions associated with them. That is, you either have the permission
 * or you don't.
 * *
 * <p>The most important method in this class is <code>implies</code>. This
 * checks whether if one has this permission, then the specified
 * permission is also implied. As a conceptual example, consider the
 * permissions "Read All Files" and "Read File foo". The permission
 * "Read All Files" implies that the caller has permission to read the
 * file foo.
 * *
 * <p><code>Permission</code>'s must be immutable - do not change their
 * state after creation.
 * *
 * @author Aaron M. Renn (arenn@urbanophile.com)
 * @see Permissions
 * @see PermissionCollection
 * @since 1.1
 * @status updated to 1.4
 */

public abstract class Permission implements Guard, Serializable
{
    /**
     * Compatible with JDK 1.1+.
     */
private static final long serialVersionUID = -563657022231596674L;

/**
 * This is the name assigned to this permission object.
 * @serial the name of the permission
 */
private String name;

/**
 * Create an instance with the specified name.
 * @param name the permission name
 */
public Permission(String name)
{
    this.name = name;
}

/**
 * This method implements the <code>Guard</code> interface for this class.
 * It calls the <code>checkPermission</code> method in
 * <code>SecurityManager</code> with this <code>Permission</code> as its
 * argument. This method returns silently if the security check succeeds
 * or throws an exception if it fails.
 * @param obj the <code>Object</code> being guarded - ignored by this class
 * @throws SecurityException if the security check fails
 * @see GuardedObject
 * @see SecurityManager#checkPermission(Permission)
 */
public void checkGuard(Object obj)
{
    SecurityManager sm = System.getSecurityManager();
    if (sm != null)
        sm.checkPermission(this);
}

/**
 * This method tests whether this <code>Permission</code> implies that the
 * specified <code>Permission</code> is also granted.
 * @param perm the <code>Permission</code> to test against
 * @return true if perm is implied by this
 */
public abstract boolean implies(Permission perm);

/**
* Check to see if this object equals obj. Use <code>equals</code>, rather
* than <code>equals</code>, when making access control decisions.
*
* @param obj the object to compare to
*/
public abstract boolean equals(Object obj);

/**
 * This method returns a hash code for this <code>Permission</code>. It
 * must satisfy the contract of <code>Object.hashCode</code>: it must be
 * the same for all objects that equals considers to be the same.
 *
 * @return a hash value
 */
public abstract int hashCode();

/**
 * Get the name of this <code>Permission</code>.
 *
 * @return the name
 */
public final String getName()
{
    return name;
}

/**
 * This method returns the list of actions for this <code>Permission</code>
 * as a <code>String</code>. The string should be in canonical order, for
 * example, both <code>new FilePermission(f, "write,read")</code> and
 * <code>new FilePermission(f, "read,write")</code> have the action list
 * "read,write".
 *
 * @return the action list for this <code>Permission</code>
 */
public abstract String getActions();

/**
 * This method returns an empty <code>PermissionCollection</code> object
 * that can store permissions of this type, or <code>null</code> if no
 * such collection is defined. Subclasses must override this to provide
 * an appropriate collection when one is needed to accurately calculate
 * <code>implies</code>. 
 *
 * @return a new <code>PermissionCollection</code>
 */
public PermissionCollection newPermissionCollection()
{
return null;
}

/**
 * This method returns a <code>String</code> representation of this
 * <code>Permission</code> object. This is in the format:
 * <code>\'(' + getClass().getName() + ' ' + getName() + ' ' + getActions
 * + '\')'</code>
 * *
 * @return this object as a <code>String</code>
 */
public String toString()
{
    CPStringBuilder string = new CPStringBuilder();
    string = string.append('(
    string = string.append(getClass().getName());
    string = string.append(' ');
    string = string.append(getName());
    string = string.append(' ');
    string = string.append(getActions());
    }
    string = string.append(')');
    return string.toString();
} // class Permission
/** Permission.java -- Information about an ACL permission
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package java.security.acl;

/**
 * This interface provides information about a permission that can be granted. Note that this is <em>not</em> the same as the class <code>java.security.Permission</code>.
 * @version 0.0
 * @author Aaron M. Renn (arenn@urbanophile.com)
 */
public interface Permission
{
    /**
     * This method tests whether or not a specified <code>Permission</code> (passed as an <code>Object</code>) is the same as this permission.
     *
     * @param perm The permission to check for equality
     *
     * @return <code>true</code> if the specified permission is the same as this one, <code>false</code> otherwise
     */
    boolean equals (Object perm);

    /**
     * This method returns this <code>Permission</code> as a <code>String</code>. 
     *
     * @return A <code>String</code> representing this permission.
     */
    String toString();
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That's all there is to it!
This is an attempt to acknowledge early contributions to the garbage
collector. Later contributions should instead be mentioned in
README.changes.

HISTORY -

Early versions of this collector were developed as a part of research
projects supported in part by the National Science Foundation
and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for
the Russell programming language implementation. The first version of the
garbage collector was written primarily by Al Demers. It was then refined
and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U.,
the University of Washington, Rice University (where it was first used for
C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant
contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in
README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser.
The Encore Multimax modifications were supplied by
Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely
due to Vernon Lee, on machines made available to Rice by IBM.
Much of the HP specific code and a number of good suggestions for improving the
generic code are due to Walter Underwood.
Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.
Al Dosser (dosser@src.dec.com) and Regis Cridilig (Regis.Cridilig@cl.cam.ac.uk)
subsequently provided updates and information on variation between ULTRIX
systems. Parag Patel (parag@netcom.com) supplied the A/UX code.
Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and
Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.
Thomas Funke (thf@zelator.in-berlin.de(?)) and
Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and
Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks(agi@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn’t
made it into the released version of the collector, yet.)
ignore
@c Set file name and title for man page.
@setfilename gpl
@settitle GNU General Public License
@c man begin SEEALSO
gfdl(7), fsf-funding(7).
@c man end
@c man begin COPYRIGHT
Copyright @copyright{} 2007 Free Software Foundation, Inc.
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license document, but changing it is not allowed.
@c man end
@end ignore
@node Copying
@c man begin DESCRIPTION
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@c End:

@c man end

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/* Use the Sequent Symmetry assembler syntax. */

/* Define the syntax of pseudo-ops, labels and comments. */

/* Prefix for internally generated assembler labels. If we aren't using underscores, we are using prefix "."s to identify labels that should be ignored, as in `i386/gas.h' --karl@cs.umb.edu */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size. */

#define ASM_BYTE "\t.byte\t"
#define ASM_SHORT "\t.word\t"
#define ASM_LONG "\t.long\t"
#define ASM_QUAD "\t.quad\t" /* Should not be used for 32bit compilation. */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS */
#define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */

/* Define the syntax of labels and symbol definitions/declarations. */

/* This is how to output an assembler line
that says to advance the location counter by SIZE bytes. */

#define ASM_OUTPUT_SKIP(FILE, SIZE) 
fprintf(FILE, "t.space "HOST_WIDE_INT_PRINT_UNSIGNED"n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations. */

/* This says how to output an assembler line
to define a global common symbol. */

#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED) 
(fputs(".comm ", (FILE)),
 assemble_name((FILE), (NAME)),
 fprintf((FILE), ",%u
", (int)(ROUNDED)))

/* This says how to output an assembler line
to define a local common symbol. */

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED) 
(fputs(".lcomm ", (FILE)),
 assemble_name((FILE), (NAME)),
 fprintf((FILE), ",%u
", (int)(ROUNDED)))

#if defined HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT) 
(fputs(".lcomm ", (FILE)),
 assemble_name((FILE), (NAME)),
 fprintf((FILE), ",%u,%u
", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* This is how to output an assembler line
that says to advance the location counter
to a multiple of 2**LOG bytes. */

#define ASM_OUTPUT_ALIGN(FILE, LOG) 
if ((LOG)!=0) fprintf((FILE), ".align %d
", (LOG))

/* This is how to store into the string BUF
the symbol_ref name of an internal numbered label where
PREFIX is the class of label and NUM is the number within the class.
This is suitable for output with `assemble_name'. */
#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER)\  
sprintf ((BUF), "*%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols. */
#define USER_LABEL_PREFIX "_"

/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0

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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dossler (dossler@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mitie.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauachmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(??)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dossier provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(agi@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn't
made it into the released version of the collector, yet.)

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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

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The ``source code'' for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

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Version 3.1, 31 March 2009

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Program          Directory
-------          ---------
mach_override   lib/interception/mach_override

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   adapted to BSD conventions for symbol names and debugging.)
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/* Use the Sequent Symmetry assembler syntax.  */

/* Define the syntax of pseudo-ops, labels and comments.  */

/* Prefix for internally generated assembler labels.  If we aren't using
underscores, we are using prefix `.s to identify labels that should
be ignored, as in `i386/gas.h' --karl@cs.umb.edu */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size.  */

#define ASM_BYTE "\t.byte\t"
#define ASM_SHORT "\t.word\t"
#define ASM_LONG "\t.long\t"
#define ASM_QUAD "\t.quad\t"  /* Should not be used for 32bit compilation.  */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS
#define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */

/* Define the syntax of labels and symbol definitions/declarations.  */

/* This is how to output an assembler line */
that says to advance the location counter by SIZE bytes. */

#define ASM_OUTPUT_SKIP(FILE,SIZE)  
fprintf (FILE, "$t.space "HOST_WIDE_INT_PRINT_UNSIGNED"n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations. */

/* This says how to output an assembler line  
to define a global common symbol. */

#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED)  
( fputs (".comm ", (FILE)),
 assemble_name ((FILE), (NAME)),
fprintf ((FILE), ",%u
", (int)(ROUNDED)))

/* This says how to output an assembler line  
to define a local common symbol. */

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED)  
( fputs (".lcomm ", (FILE)),
 assemble_name ((FILE), (NAME)),
fprintf ((FILE), ",%u
", (int)(ROUNDED)))

#ifdef HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT)  
( fputs (".lcomm ", (FILE)),
 assemble_name ((FILE), (NAME)),
fprintf ((FILE), ",%u,%u
", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* This is how to output an assembler line  
that says to advance the location counter  
to a multiple of 2**LOG bytes. */

#define ASM_OUTPUT_ALIGN(FILE,LOG)  
if ((LOG)!=0) fprintf ((FILE), "$t.align %d\n", (LOG))

/* This is how to store into the string BUF  
the symbol_ref name of an internal numbered label where  
PREFIX is the class of label and NUM is the number within the class.  
This is suitable for output with `assemble_name'. */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER)  
sprintf ((BUF), ":%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols. */

#define USER_LABEL_PREFIX "_"
/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1

/* Don’t split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0

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```
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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dossier@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson (jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauermann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D. Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dossor provided Alpha/OSF/1 code. He and
Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks(agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jsd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn’t
made it into the released version of the collector, yet.)

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#!/usr/bin/python
#
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#
# This script is free software; you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 3, or (at your option)
# This script adjusts the copyright notices at the top of source files
# so that they have the form:
#
# Copyright XXXX-YYYY Free Software Foundation, Inc.
#
# It doesn't change code that is known to be maintained elsewhere or
# that carries a non-FSF copyright.
#
# The script also doesn't change testsuite files, except those in
# libstdc++-v3. This is because libstdc++-v3 has a conformance testsuite,
# while most tests in other directories are just things that failed at some
# point in the past.
#
# Pass --this-year to the script if you want it to add the current year
# to all applicable notices. Pass --quilt if you are using quilt and
# want files to be added to the quilt before being changed.
#
# By default the script will update all directories for which the
# output has been vetted. You can instead pass the names of individual
# directories, including those that haven't been approved. So:
#
#    update-copyright.pl --this-year
#
# is the command that would be used at the beginning of a year to update
# all copyright notices (and possibly at other times to check whether
# new files have been added with old years). On the other hand:
#
#    update-copyright.pl --this-year libjava
#
# would run the script on just libjava/.
#
# Note that things like --version output strings must be updated before
# this script is run. There's already a separate procedure for that.

import os
import re
import sys
import time
import subprocess

class Errors:
    def __init__(self):
        self.num_errors = 0

    def report(self, filename, string):
        if filename:
            if filename:
string = filename + '.' + string
sys.stderr.write (string + '\n')
self.num_errors += 1

def ok (self):
    return self.num_errors == 0

class GenericFilter:
    def __init__ (self):
        self.skip_files = set()
        self.skip_dirs = set()
        self.skip_extensions = set()
        self.fossilised_files = set()
        self.own_files = set()

        self.skip_files |= set (
            # Skip licence files.
            'COPYING',
            'COPYING.LIB',
            'COPYING3',
            'COPYING3.LIB',
            'LICENSE',
            'fdl.texi',
            'gpl_v3.texi',
            'fdl-1.3.xml',
            'gpl-3.0.xml',

            # Skip auto- and libtool-related files
            'aclocal.m4',
            'compile',
            'config.guess',
            'config.sub',
            'decomp',
            'install-sh',
            'libtool.m4',
            'ltmain.sh',
            'ltoptions.m4',
            'lt~obsolete.m4',
            'missing',
            'mkdep',
            'mkinstalldirs',
            'move-if-change',
            'shlibpath.m4',
            'symlink-tree',
            'ylwrap',
        )
# Skip FSF mission statement, etc.
'gnu.texi',
'funding.texi',
'appendix_free.xml',

# Skip imported texinfo files.
'texinfo.tex',
)

def get_line_filter (self, dir, filename):
    if filename.startswith ('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile ('\t')
    return None

def skip_file (self, dir, filename):
    if filename in self.skip_files:
        return True
    (base, extension) = os.path.splitext (os.path.join (dir, filename))
    if extension in self.skip_extensions:
        return True
    if extension == '.in':
        # Skip .in files produced by automake.
        if os.path.exists (base + '.am'):
            return True
    # Skip files produced by autogen
    if (os.path.exists (base + '.def')
        and os.path.exists (base + '.tpl')):
        return True
    # Skip configure files produced by autoconf
    if filename == 'configure':
        if os.path.exists (base + '.ac'):
            return True
        if os.path.exists (base + '.in'):
            return True
    return False

def skip_dir (self, dir, subdir):
    return subdir in self.skip_dirs

def is_fossilised_file (self, dir, filename):

if filename in self.fossilised_files:
    return True
# Only touch current current ChangeLogs.
if filename != 'ChangeLog' and filename.find ('ChangeLog') >= 0:
    return True
return False

def by_package_author (self, dir, filename):
    return filename in self.own_files

class Copyright:
    def __init__ (self, errors):
        self.errors = errors

        # Characters in a range of years. Include ',' for typos.
        ranges = '[0-9][?:-0-9,.\s][s+and\s+]*[0-9]'

        # Non-whitespace characters in a copyright holder's name.
        name = '\[\w,.-]'

        # Matches one year.
        self.year_re = re.compile ('[0-9]+')

        # Matches part of a year or copyright holder.
        self.continuation_re = re.compile (ranges + '|\[\w,.-\]' + name)

        # Matches a full copyright notice:
        self.copyright_re = re.compile (r'
            # 1: 'Copyright (C)', etc.\n            '([Cc]\s?\w\s+©)?\s+\[0-9]+?
            # 2: the years. Include the whitespace in the year, so that
            # we can remove any excess.\n            '\s*\((?:\w+\.)?\s\w+\s\w+\)?\s\[\w,.-\]'\n            # 3: 'by ', if used
            '(by\s+)'\n            # 4: the copyright holder. Don't allow multiple consecutive
            # spaces, so that right-margin gloss doesn't get caught
            # (e.g. gnat_ugn.texi).\n            '\[\' + name + '\[\w,.-\] + name + \]')
# A regexp for notices that might have slipped by. Just matching
# 'copyright' is too noisy, and 'copyright.*[0-9]' falls foul of
# HTML header markers, so check for 'copyright' and two digits.
self.other_copyright_re = re.compile('copyright.*\[0-9\][0-9]',
                                     re.IGNORECASE)
self.comment_re = re.compile('#+|[*]+|;+|%+|//+|@c|dnl')
self.holders = {'@copying': '@copying'}
self.holder_prefixes = set()

# True to 'quilt add' files before changing them.
self.use_quilt = False

# If set, force all notices to include this year.
self.max_year = None

# Goes after the year(s). Could be ',', '.
self.separator = '

def add_package_author(self, holder, canon_form=None):
    if not canon_form:
        canon_form = holder
    self.holders[holder] = canon_form
    index = holder.find(' ')
    while index >= 0:
        self.holder_prefixes.add(holder[:index])
        index = holder.find(' ', index + 1)

def add_external_author(self, holder):
    self.holders[holder] = None

class BadYear():
    def __init__(self, year):
        self.year = year

    def __str__(self):
        return 'unrecognised year: ' + self.year

def parse_year(self, string):
    year = int(string)
    if len(string) == 2:
        if year > 70:
            return year + 1900
        elif len(string) == 4:
            return year
        raise self.BadYear(string)

    def year_range(self, self, years):

year_list = [self.parse_year (year)
    for year in self.year_re.findall (years)]
assert len (year_list) > 0
return (min (year_list), max (year_list))

def set_use_quilt (self, use_quilt):
    self.use_quilt = use_quilt

def include_year (self, year):
    assert not self.max_year
    self.max_year = year

def canonicalise_years (self, dir, filename, filter, years):
    # Leave texinfo variables alone.
    if years.startswith ('@value'):
        return years
    (min_year, max_year) = self.year_range (years)
    # Update the upper bound, if enabled.
    if self.max_year and not filter.is_fossilised_file (dir, filename):
        max_year = max (max_year, self.max_year)
    # Use a range.
    if min_year == max_year:
        return '%d' % min_year
    else:
        return '%d-%d' % (min_year, max_year)

def strip_continuation (self, line):
    line = line.lstrip()
    match = self.comment_re.match (line)
    if match:
        line = line[match.end():].lstrip()
    return line

def is_complete (self, match):
    holder = match.group (4)
    return (holder
        and (holder not in self.holder_prefixes
            or holder in self.holders))

def update_copyright (self, dir, filename, filter, file, line, match):
    orig_line = line
    next_line = None
    pathname = os.path.join (dir, filename)

    intro = match.group (1)
if intro.startswith('@set'):
    # Texinfo year variables should always be on one line
    after_years = line[match.end(2)].strip()
    if after_years != '\n':
        self.errors.report(pathname,
                          'trailing characters in @set: ' + after_years)
        return (False, orig_line, next_line)
else:
    # If it looks like the copyright is incomplete, add the next line.
    while not self.is_complete(match):
        try:
            next_line = file.next()
        except StopIteration:
            break
    # If the next line doesn't look like a proper continuation,
    # assume that what we've got is complete.
    continuation = self.strip_continuation(next_line)
    if not self.continuation_re.match(continuation):
        break
    # Merge the lines for matching purposes.
    orig_line += next_line
    line = line.rstrip() + ' ' + continuation
    next_line = None
    # Rematch with the longer line, at the original position.
    match = self.copyright_re.match(line, match.start())
    assert match
    holder = match.group(4)
    # Use the filter to test cases where markup is getting in the way.
    if filter.by_package_author(dir, filename):
        assert holder not in self.holders
    elif not holder:
        self.errors.report(pathname, 'missing copyright holder')
        return (False, orig_line, next_line)
    elif holder not in self.holders:
        self.errors.report(pathname, 'unrecognised copyright holder: ' + holder)
        return (False, orig_line, next_line)
    else:
        # See whether the copyright is associated with the package
# author.
canon_form = self.holders[holder]
if not canon_form:
    return (False, orig_line, next_line)

# Make sure the author is given in a consistent way.
line = (line[:match.start (4)]
    + canon_form
    + line[match.end (4):])

# Remove any 'by'
line = line[:match.start (3)] + line[match.end (3):]

# Update the copyright years.
years = match.group (2).strip()
try:
    canon_form = self.canonicalise_years (dir, filename, filter, years)
except self.BadYear as e:
    self.errors.report (pathname, str (e))
    return (False, orig_line, next_line)

line = (line[:match.start (2)]
    + ' ' + canon_form + self.separator
    + line[match.end (2):])

# Use the standard (C) form.
if intro.endswith ('right'):
    intro += ' (C)'
elif intro.endswith ('(c)'):
    intro = intro[:-3] + '(C)'
line = line[:match.start (1)] + intro + line[match.end (1):]

# Strip trailing whitespace
line = line.rstrip() + '
'
return (line != orig_line, line, next_line)

def process_file (self, dir, filename, filter):
    pathname = os.path.join (dir, filename)
    if filename.endswith ('.tmp'):
        # Looks like something we tried to create before.
        try:
            os.remove (pathname)
        except OSError:
            pass
        return

    lines = []
changed = False
line_filter = filter.get_line_filter (dir, filename)
with open (pathname, 'r') as file:
    prev = None
    for line in file:
        if line_filter:
            next_line = None
            while line:
                # Leave filtered-out lines alone.
                if not (line_filter and line_filter.match (line)):
                    match = self.copyright_re.search (line)
                    if match:
                        res = self.update_copyright (dir, filename, filter,
                                                   file, line, match)
                        (this_changed, line, next_line) = res
                        changed = changed or this_changed
                # Check for copyright lines that might have slipped by.
                elif self.other_copyright_re.search (line):
                    self.errors.report (pathname,
                                        'unrecognised copyright: %s'
                                        % line.strip())
                lines.append (line)
                line = next_line
        # If something changed, write the new file out.
        if changed and self.errors.ok():
            tmp_pathname = pathname + '.tmp'
            with open (tmp_pathname, 'w') as file:
                for line in lines:
                    file.write (line)
            if self.use_quilt:
                subprocess.call (["quilt", 'add', pathname])
            os.rename (tmp_pathname, pathname)

def process_tree (self, tree, filter):
    for (dir, subdirs, filenames) in os.walk (tree):
        # Don't recurse through directories that should be skipped.
        for i in xrange (len (subdirs) - 1, -1, -1):
            if filter.skip_dir (dir, subdirs[i]):
                del subdirs[i]

        # Handle the files in this directory.
        for filename in filenames:
            if filter.skip_file (dir, filename):
                sys.stdout.write ('Skipping %s
' % os.path.join (dir, filename))
            else:
                self.process_file (dir, filename, filter)
class CmdLine:
    def __init__(self, copyright = Copyright):
        self.errors = Errors()
        self.copyright = copyright (self.errors)
        self.dirs = []
        self.default_dirs = []
        self.chosen_dirs = []
        self.option_handlers = dict()
        self.option_help = []

        self.add_option ('--help', 'Print this help', self.o_help)
        self.add_option ('--quilt', """quilt add"" files before changing them",
                         self.o_quilt)
        self.add_option ('--this-year', 'Add the current year to every notice",
                         self.o_this_year)

    def add_option (self, name, help, handler):
        self.option_help.append ((name, help))
        self.option_handlers[name] = handler

    def add_dir (self, dir, filter = GenericFilter()):
        self.dirs.append ((dir, filter))

    def o_help (self, option = None):
        sys.stdout.write ('Usage: %s [options] dir1 dir2...\n\n' % sys.argv[0])
        format = '%-15s %s
'
        for (what, help) in self.option_help:
            sys.stdout.write (format % (what, help))
        sys.stdout.write ('\nDirectories:
')
        format = '%-25s'
        i = 0
        for (dir, filter) in self.dirs:
            i += 1
            if i % 3 == 0 or i == len (self.dirs):
                sys.stdout.write (dir + '\n')
            else:
                sys.stdout.write (format % dir)
        sys.exit (0)

    def o_quilt (self, option):
        self.copyright.set_use_quilt (True)

    def o_this_year (self, option):
        self.copyright.include_year (time.localtime().tm_year)
def main(self):
    for arg in sys.argv[1:]:
        if arg[1:] != '-':
            self.chosen_dirs.append(arg)
        elif arg in self.option_handlers:
            self.option_handlers[arg](arg)
        else:
            self.errors.report(None, 'unrecognised option: ' + arg)
    if self.errors.ok():
        if len(self.chosen_dirs) == 0:
            self.chosen_dirs = self.default_dirs
        if len(self.chosen_dirs) == 0:
            self.o_help()
        else:
            for chosen_dir in self.chosen_dirs:
                canon_dir = os.path.join(chosen_dir, '')
                count = 0
                for (dir, filter) in self.dirs:
                    if (dir + os.sep).startswith(canon_dir):
                        count += 1
                        self.copyright.process_tree(dir, filter)
                if count == 0:
                    self.errors.report(None, 'unrecognised directory: ' + chosen_dir)
                sys.exit(0 if self.errors.ok() else 1)

#----------------------------------------------------------------------------
class TopLevelFilter(GenericFilter):
    def skip_dir(self, dir, subdir):
        return True

class ConfigFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

    def skip_file(self, dir, filename):
        if filename.endswith('.m4'):
            pathname = os.path.join(dir, filename)
            with open(pathname) as file:
               # Skip files imported from gettext.
                if file.readline().find('gettext-') >= 0:
                    return True
            return GenericFilter.skip_file(self, dir, filename)

class GCCFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)
self.skip_files |= set([
    # Not part of GCC
    'math-68881.h',
])

self.skip_dirs |= set([
    # Better not create a merge nightmare for the GNAT folks.
    'ada',
    # Handled separately.
    'testsuite',
])

self.skip_extensions |= set([
    # Maintained by the translation project.
    '.po',
    # Automatically-generated.
    '.pot',
])

self.fossilised_files |= set([
    # Old news won't be updated.
    'ONEWS',
])

class TestsuiteFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_extensions |= set([
            # Don't change the tests, which could be woend by anyone.
            '.c',
            '.C',
            '.cc',
            '.h',
            '.hs',
            '.f',
            '.f90',
            '.go',
            '.inc',
            '.java',
        ])

    def skip_file(self, dir, filename):
        # g++.niklas/README contains historical copyright information
        # and isn't updated.
if filename == 'README' and os.path.basename (dir) == 'g++.niklas':
    return True
return GenericFilter.skip_file (self, dir, filename)

class LibCppFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_extensions |= set ([
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
        ])

class LibGCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set ([
            # Imported from GLIBC.
            'soft-fp',
        ])

class LibJavaFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set ([
            # Handled separately.
            'testsuite',

            # Not really part of the library
            'contrib',

            # Imported from upstream
            'classpath',
            'libltdl',
        ])

def get_line_filter (self, dir, filename):
    if filename == 'NameDecoder.h':
        return re.compile ('.*NAME_COPYRIGHT')
    if filename == 'ICC_Profile.h':
        return re.compile ('.*icSigCopyrightTag')
    return GenericFilter.get_line_filter (self, dir, filename)
class LibMudflapFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set ([
            # Handled separately.
            'testsuite',
        ])

class LibStdCxxFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set ([
            # Contains automatically-generated sources.
            'html',

            # The testsuite data files shouldn't be changed.
            'data',

            # Contains imported images
            'images',
        ])

        self.own_files |= set ([
            # Contains markup around the copyright owner.
            'spine.xml',
        ])

    def get_line_filter (self, dir, filename):
        if filename == 'boost_concept_check.h':
            return re.compile ('// \(C\) Copyright Jeremy Siek')
        return GenericFilter.get_line_filter (self, dir, filename)

class GCCCopyright (Copyright):
    def __init__ (self, errors):
        Copyright.__init__ (self, errors)

        canon_fsf = 'Free Software Foundation, Inc.'
        self.add_package_author ('Free Software Foundation', canon_fsf)
        self.add_package_author ('Free Software Foundation', canon_fsf)
        self.add_package_author ('Free Software Foundation Inc.', canon_fsf)
        self.add_package_author ('Free Software Foundation, Inc', canon_fsf)
self.add_package_author('Free Software Foundation, Inc.', canon_fsf)
self.add_package_author('The Free Software Foundation', canon_fsf)
self.add_package_author('The Free Software Foundation, Inc.', canon_fsf)
self.add_package_author('Software Foundation, Inc.', canon_fsf)

self.add_external_author('ARM')
self.add_external_author('AdaCore')
self.add_external_author('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
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self.add_external_author('Makoto Matsumoto and Takuji Nishimura,')
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self.add_external_author('Peter Dimov')
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self.add_external_author('Regents of the University of California.')
self.add_external_author('Silicon Graphics Computer Systems, Inc.')
self.add_external_author('Silicon Graphics')
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self.add_external_author('The Go Authors. All rights reserved.')
self.add_external_author('The Regents of the University of California.')
self.add_external_author('Unicode, Inc.')
self.add_external_author('University of Toronto.')

class GCCCmdLine (CmdLine):
    def __init__ (self):
        CmdLine.__init__ (self, GCCCopyright)

        self.add_dir ('.', TopLevelFilter())
        # boehm-gc is imported from upstream.
        self.add_dir ('config', ConfigFilter())
        # contrib isn't really part of GCC.
        self.add_dir ('fixincludes')
        self.add_dir ('gcc', GCCFilter())
        self.add_dir (os.path.join ('gcc', 'testsuite'), TestsuiteFilter())
        self.add_dir ('gnattools')
        self.add_dir ('include')
        self.add_dir ('libada')
        self.add_dir ('libatomic')
        self.add_dir ('libbacktrace')
self.add_dir ('libcpp', LibCppFilter())
self.add_dir ('libdecnumber')
# libffi is imported from upstream.
self.add_dir ('libgcc', LibGCCFilter())
self.add_dir ('libgomp')
self.add_dir ('libiberty')
self.add_dir ('libitm')
self.add_dir ('libjava', LibJavaFilter())
self.add_dir (os.path.join ('libjava', 'testsuite'), TestsuiteFilter())
self.add_dir ('libmudflap', LibMudflapFilter())
self.add_dir (os.path.join ('libmudflap', 'testsuite'),
TestsuiteFilter())
self.add_dir ('libobjc')
self.add_dir ('libquadmath')
# libsanitiser is imported from upstream.
self.add_dir ('libssp')
self.add_dir ('libstdc++-v3', LibStdCxxFilter())
self.add_dir ('lto-plugin')
# zlib is imported from upstream.

self.default_dirs = [
    'gcc',
    'libada',
    'libatomic',
    'libbacktrace',
    'libcpp',
    'libdecnumber',
    'libgcc',
    'libgfortran',
    'libgomp',
    'libitm',
    'libmudflap',
    'libobjc',
    'libstdc++-v3',
]

GCCCmdLine().main()

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Version 3.1.31 March 2009

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@enumerate
@item
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If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must
be optional: if the application does not supply it, the square root function must still compute square roots.)
@end enumerate

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

@item As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.
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* Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

* Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

* Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

* If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

* Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
Library” must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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@end enumerate

@end iftex
@end heading
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@end ifinfo
@end page
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Ty Coon, President of Vice
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   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
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6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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*m4/ax_func_which_gethostname_r.m4*

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package gnu.classpath.tools.taglets;

import java.util.Map;

import com.sun.tools.doclets.Taglet;

import com.sun.tools.doclets.Tag;

/**
 * A simple Taglet which handles Copyright information.
 */
public class CopyrightTaglet implements Taglet {

    private static final String NAME = "copyright";
    private static final String HEADER = "Copyright:";

    public String getName() {
        return NAME;
    }

    public boolean inField() {
        return true;
    }

    public boolean inConstructor() {
        return true;
    }

    public boolean inMethod() {
        return true;
    }

    public boolean inOverview() {
        return true;
    }

    public boolean inPackage() {
        return true;
    }

    public boolean inType() {
        return true;
    }

    public boolean isInlineTag() {
        return false;
    }

    public static void register(Map tagletMap) {
        CopyrightTaglet copyrightTaglet = new CopyrightTaglet();
        tagletMap.put(copyrightTaglet.getName(), copyrightTaglet);
    }

    public String toString(Tag tag) {
        return toString(new Tag[] { tag });
    }

    public String toString(Tag[] tags) {

if (tags.length == 0) {
    return null;
} else {
    boolean haveValidTag = false;
    for (int i = 0; i < tags.length && !haveValidTag; ++i) {
        if (tags[i].text().length() > 0) {
            haveValidTag = true;
        }
    }
    if (haveValidTag) {
        StringBuffer result = new StringBuffer();
        result.append("<dl>");
        for (int i = 0; i < tags.length; i++) {
            if (tags[i].text().length() > 0) {
                result.append("<dt><i>Copyright ©\" " + tags[i].text() + \" i\")</dt>\");
            }
        result.append("</dl>");
        return result.toString();
    }
    else {
        return null;
    }
}
/* Permission.java -- The superclass for all permission objects

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package java.security;

import gnu.java.lang.CPStringBuilder;

import java.io.Serializable;

/**
 * This class is the abstract superclass of all classes that implement
 * the concept of a permission. A permission consists of a permission name
 * and optionally a list of actions that relate to the permission. The
 * actual meaning of the name of the permission is defined only in the
 * context of a subclass. It may name a resource to which access permissions
 * are granted (for example, the name of a file) or it might represent
 * something else entirely. Similarly, the action list only has meaning
 * within the context of a subclass. Some permission names may have no
 * actions associated with them. That is, you either have the permission
 * or you don't.
 * *
 * <p>The most important method in this class is <code>implies</code>. This
 * checks whether if one has this permission, then the specified
 * permission is also implied. As a conceptual example, consider the
 * permissions "Read All Files" and "Read File foo". The permission
 * "Read All Files" implies that the caller has permission to read the
 * file foo.
 * *
 * <p><code>Permission</code>'s must be immutable - do not change their
 * state after creation.
 * *
 * @author Aaron M. Renn (arenn@urbanophile.com)
 * @see Permissions
 * @see PermissionCollection
public abstract class Permission implements Guard, Serializable
{
/**
* Compatible with JDK 1.1+
*/
private static final long serialVersionUID = -5636570222231596674L;

/**
* This is the name assigned to this permission object.
*
* @serial the name of the permission
*/
private String name;

/**
* Create an instance with the specified name.
*
* @param name the permission name
*/
public Permission(String name)
{
    this.name = name;
}

/**
* This method implements the <code>Guard</code> interface for this class.
* It calls the <code>checkPermission</code> method in
* <code>SecurityManager</code> with this <code>Permission</code> as its
* argument. This method returns silently if the security check succeeds
* or throws an exception if it fails.
*
* @param obj the <code>Object</code> being guarded - ignored by this class
* @throws SecurityException if the security check fails
* @see GuardedObject
* @see SecurityManager#checkPermission(Permission)
*/
public void checkGuard(Object obj)
{
    SecurityManager sm = System.getSecurityManager();
    if (sm != null)
        sm.checkPermission(this);
}

/**
* This method tests whether this <code>Permission</code> implies that the
* specified <code>Permission</code> is also granted.
*
* @param perm the <code>Permission</code> to test against
* @return true if perm is implied by this
*/
public abstract boolean implies(Permission perm);

/**
 * Check to see if this object equals obj. Use <code>implies</code>, rather
 * than <code>equals</code>, when making access control decisions.
 * @param obj the object to compare to
 */
public abstract boolean equals(Object obj);

/**
 * This method returns a hash code for this <code>Permission</code>. It
 * must satisfy the contract of <code>Object.hashCode</code>; it must be
 * the same for all objects that equals considers to be the same.
 * @return a hash value
 */
public abstract int hashCode();

/**
 * Get the name of this <code>Permission</code>.
 * @return the name
 */
public final String getName()
{
    return name;
}

/**
 * This method returns the list of actions for this <code>Permission</code>
 * as a <code>String</code>. The string should be in canonical order, for
 * example, both <code>new FilePermission(f, "write,read")</code> and
 * <code>new FilePermission(f, "read,write")</code> have the action list
 * "read,write".
 * @return the action list for this <code>Permission</code>
 */
public abstract String getActions();

/**
 * This method returns an empty <code>PermissionCollection</code> object
 * that can store permissions of this type, or <code>null</code> if no
* such collection is defined. Subclasses must override this to provide
* an appropriate collection when one is needed to accurately calculate
* <code>implies</code>.
*
* @return a new <code>PermissionCollection</code>
*/
public PermissionCollection newPermissionCollection()
{
    return null;
}

/**
 * This method returns a <code>String</code> representation of this
 * <code>Permission</code> object. This is in the format:
 * <code>(' + getClass().getName() + ' ' + getName() + ' ' + getActions
 * + ')'</code>.
 *
 * @return this object as a <code>String</code>
*/
public String toString()
{
    CPStringBuilder string = new CPStringBuilder();

    string = string.append('(');
    string = string.append(getClass().getName());
    string = string.append(' ');
    string = string.append(getName());
    if (!(getActions().equals("")))
    {
        string = string.append(' ');
        string = string.append(getActions());
    }

    string = string.append(')');
    return string.toString();
}
} // class Permission

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package java.security.acl;

/**
 * This interface provides information about a permission that can be granted. Note that this is \texttt{not} the same as the class \texttt{java.security.Permission}.
 * @version 0.0
 * @author Aaron M. Renn (arenn@urbanophile.com)
 */

public interface Permission
{
 /**
 * This method tests whether or not a specified \texttt{Permission} (passed as an \texttt{Object}) is the same as this permission.
 * @param perm The permission to check for equality
 * @return \texttt{true} if the specified permission is the same as this one, \texttt{false} otherwise
 */
boolean equals (Object perm);

/**
 * This method returns this <code>Permission</code> as a <code>String</code>.
 * @return A <code>String</code> representing this permission.
 */
String toString();

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a “work that uses the Library” with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable “work that uses the Library”, as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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1.323 GConf2 3.2.6 :8.el7

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The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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This option is useful when you wish to copy part of the code of
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threshold for this to be true is not precisely defined by law.

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Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

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@end enumerate

@end enumerate

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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
the `copyright` line and a pointer to where the full notice is found.

@example
@example
Copyright (C) year name of author
@example

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Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

@example
@example
program Copyright (C) year name of author
@example
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w`.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c` for details.
@end smallexample

The hypothetical commands `show w` and `show c` should show
the appropriate parts of the General Public License. Of course, your
program's commands might be different; for a GUI interface, you would
use an `about box`.

You should also get your employer (if you work as a programmer) or school,
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library, you may consider it more useful to permit linking proprietary
applications with the library. If this is what you want to do, use
the GNU Lesser General Public License instead of this License. But
This script updates the list of years in the copyright notices in most files maintained by the GDB project.

Usage: cd src/gdb && python copyright.py

Always review the output of this script before committing it!
A useful command to review the output is:
  % filterdiff -x *.c -x *.cc -x *.h -x *.exp updates.diff
This removes the bulk of the changes which are most likely to be correct.

import datetime
import os
import os.path
import subprocess

def get_update_list():
    """Return the list of files to update.

    Assumes that the current working directory when called is the root of
    the GDB source tree (NOT the gdb/ subdirectory!). The names of
    the files are relative to that root directory.
    """
    result = []
for gdb_dir in ('gdb', 'sim', 'include/gdb'):
    for root, dirs, files in os.walk(gdb_dir, topdown=True):
        for dirname in dirs:
            reldirname = "%s/%s" % (root, dirname)
            if (dirname in EXCLUDE_ALL_LIST
                or reldirname in EXCLUDE_LIST
                or reldirname in NOT_FSF_LIST
                or reldirname in BY_HAND):
                # Prune this directory from our search list.
                dirs.remove(dirname)
            for filename in files:
                relpath = "%s/%s" % (root, filename)
                if (filename in EXCLUDE_ALL_LIST
                    or relpath in EXCLUDE_LIST
                    or relpath in NOT_FSF_LIST
                    or relpath in BY_HAND):
                    # Ignore this file.
                    pass
                else:
                    result.append(relpath)
        return result

def update_files(update_list):
    """Update the copyright header of the files in the given list."
    We use gnulib's update-copyright script for that.
    ""
    # We want to use year intervals in the copyright notices, and
    # all years should be collapsed to one single year interval,
    # even if there are "holes" in the list of years found in the
    # original copyright notice (OK'ed by the FSF, case [gnu.org #719834]).
    os.environ["UPDATE_COPYRIGHT_USE_INTERVALS"] = '2'
    # Perform the update, and save the output in a string.
    update_cmd = ['bash', 'gdb/gnulib/import/extra/update-copyright']
    update_cmd += update_list
    p = subprocess.Popen(update_cmd, stdout=subprocess.PIPE,
                         stderr=subprocess.STDOUT)
    update_out = p.communicate()[0]

    # Process the output. Typically, a lot of files do not have
    # a copyright notice :-(. The update-copyright script prints
    # a well defined warning when it did not find the copyright notice.
    # For each of those, do a sanity check and see if they may in fact
    # have one. For the files that are found not to have one, we filter
    # the line out from the output, since there is nothing more to do,
# short of looking at each file and seeing which notice is appropriate. 
# Too much work! (~4,000 files listed as of 2012-01-03).
update_out = update_out.splitlines()
warning_string = ': warning: copyright statement not found'
warning_len = len(warning_string)

for line in update_out:
    if line.endswith(\'\n\'):
        line = line[:-1]
    if line.endswith(warning_string):
        filename = line[:-warning_len]
        if may_have_copyright_notice(filename):
            print line
        else:
            # Unrecognized file format. !?!
            print "*** " + line

def may_have_copyright_notice(filename):
    """Check that the given file does not seem to have a copyright notice.

    The filename is relative to the root directory.
    This function assumes that the current working directory is that root
directory.

    The algorithm is fairly crude, meaning that it might return
some false positives. I do not think it will return any false
negatives... We might improve this function to handle more
complex cases later...
    """
    # For now, it may have a copyright notice if we find the word
    # "Copyright" at the (reasonable) start of the given file, say
    # 50 lines...
    MAX_LINES = 50

    fd = open(filename)

    lineno = 1
    for line in fd:
        if 'Copyright' in line:
            return True
        lineno += 1
    if lineno > 50:
        return False
    return False

def main ():
if not os.path.isfile("gnulib/importextra/update-copyright"):  
    print "Error: This script must be called from the gdb directory."
root_dir = os.path.dirname(os.getcwd())
os.chdir(root_dir)

update_list = get_update_list()
update_files(update_list)

# Remind the user that some files need to be updated by HAND...
if BY_HAND:
    print
    print "\033[31mREMINDER: The following files must be updated by hand.\033[0m"
    for filename in BY_HAND + MULTIPLE_COPYRIGHT_HEADERS:
        print "  ", filename

############################################################################
# Some constants, placed at the end because they take up a lot of room.
# The actual value of these constants is not significant to the understanding
# of the script.
#
############################################################################

# Files which should not be modified, either because they are
# generated, non-FSF, or otherwise special (e.g. license text,
# or test cases which must be sensitive to line numbering).
#
# Filenames are relative to the root directory.
EXCLUDE_LIST = ('gdb/CONTRIBUTE',
                 'gdb/gnulib')

# Files which should not be modified, either because they are
# generated, non-FSF, or otherwise special (e.g. license text,
# or test cases which must be sensitive to line numbering).
#
# Matches any file or directory name anywhere. Use with caution.
# This is mostly for files that can be found in multiple directories.
# Eg: We want all files named COPYING to be left untouched.
EXCLUDE_ALL_LIST = ("COPYING", "COPYING.LIB", "CVS", "configure", "copying.c",
                   "fdl.texi", "gpl.texi", "aclocal.m4",)
# The list of files to update by hand.

BY_HAND = (
    # These files are sensitive to line numbering.
    "gdb/testsuite/gdb.base/step-line.inp",
    "gdb/testsuite/gdb.base/step-line.c",
)

# Files containing multiple copyright headers. This script is only
# fixing the first one it finds, so we need to finish the update
# by hand.

MULTIPLE_COPYRIGHT_HEADERS = (
    "gdb/doc/doc.dbg.texinfo",
    "gdb/doc/refcard.tex",
    "gdb/gdbarch.sh",
)

# The list of file which have a copyright, but not head by the FSF.
# Filenames are relative to the root directory.

NOT_FSF_LIST = (
    "gdb/exc_request.defs",
    "gdb/gdbtk",
    "gdb/testsuite/gdb.gdbtk/",
    "sim/arm/armemu.h", "sim/arm/armos.c", "sim/arm/gdbhost.c",
    "sim/arm/dbg_hif.h", "sim/arm/dbg_conf.h", "sim/arm/communicate.h",
    "sim/arm/armos.h", "sim/arm/armcpu.o", "sim/arm/armemu.c",
    "sim/arm/func.h", "sim/arm/thumbemu.c", "sim/arm/armdefs.h",
    "sim/arm/armopts.h", "sim/arm/dbg_cp.h", "sim/arm/dbg_rdi.h",
    "sim/arm/parent.c", "sim/arm/armsupp.c", "sim/arm/armrdi.c",
    "sim/arm/bag.c", "sim/arm/armvirt.c", "sim/arm/main.c", "sim/arm/bag.h",
    "sim/arm/communicate.c", "sim/arm/gdbhost.h", "sim/arm/armfpe.h",
    "sim/arm/arminit.c",
    "sim/common/cgen-fpu.c", "sim/common/cgen-fpu.h",
    "sim/common/cgen-accfp.c",
    "sim/erc32/sis.h", "sim/erc32/erc32.c", "sim/erc32/func.c",
    "sim/erc32/float.c", "sim/erc32/interf.c", "sim/erc32/sis.c",
    "sim/erc32/exec.c",
    "sim/mips/m16run.c", "sim/mips/sim-main.c",
    "sim/moxie/moxie-gdb.dts",
    # Not a single file in sim/ppc/ appears to be copyright FSF :-(.  
    "sim/ppc/filter.h", "sim/ppc/gen-support.h", "sim/ppc/lq-insn.h",
    "sim/ppc/hw_sem.c", "sim/ppc/hw_disk.c", "sim/ppc/idecode_branch.h",
    "sim/ppc/sim-endian.h", "sim/ppc/table.c", "sim/ppc/hw_core.c",
    "sim/ppc/gen-support.c", "sim/ppc/gen-semantics.h", "sim/ppc/cpu.h",
    "sim/ppc/sim_callbacks.h", "sim/ppc/RUN", "sim/ppc/Makefile.in",
    "sim/ppc/emul_chirp.c", "sim/ppc/hw_nvram.c", "sim/ppc/dc-test.01",
    "sim/ppc/hw_phb.c", "sim/ppc/hw_eeprom.c", "sim/ppc/bits.h",
    "sim/ppc/hw_vm.c", "sim/ppc/cap.h", "sim/ppc/os_emul.h",
    "sim/ppc/options.h", "sim/ppc/gen-idecode.c", "sim/ppc/filter.c",
"sim/ppc/corefile-n.h", "sim/ppc/std-config.h", "sim/ppc/ld-decode.h",
"sim/ppc/filter_filename.h", "sim/ppc/hw_shm.c",
"sim/ppc/pk_disklabel.c", "sim/ppc/dc-simple", "sim/ppc/misc.h",
"sim/ppc/device_table.h", "sim/ppc/idn-insn.c", "sim/ppc/inline.c",
"sim/ppc/emul_bugapi.h", "sim/ppc/hw_cpu.h", "sim/ppc/debug.h",
"sim/ppc/hw_ide.c", "sim/ppc/debug.c", "sim/ppc/gen-itable.h",
"sim/ppc/interrupts.c", "sim/ppc/hw_glue.c", "sim/ppc/emul_unix.c",
"sim/ppc/sim_calls.c", "sim/ppc/dc-complex", "sim/ppc/ld-cache.c",
"sim/ppc/registers.h", "sim/ppc/dc-test.02", "sim/ppc/options.c",
"sim/ppc/igen.h", "sim/ppc/registers.c", "sim/ppc/device.h",
"sim/ppc/emul_chirp.h", "sim/ppc/hw_register.c", "sim/ppc/hw_init.c",
"sim/ppc/sim-endian-n.h", "sim/ppc/filter_filename.c",
"sim/ppc/bits.c", "sim/ppc/decode_fields.h", "sim/ppc/hw_memory.c",
"sim/ppc/misc.c", "sim/ppc/decode.c", "sim/ppc/psim.h",
"sim/ppc/hw_trace.c", "sim/ppc/emul_netbsd.h", "sim/ppc/psim.c",
"sim/ppc/pcc-instructions", "sim/ppc/tree.h", "sim/ppc/README",
"sim/ppc/gen-icache.h", "sim/ppc/gen-model.h", "sim/ppc/ld-cache.h",
"sim/ppc/mon.c", "sim/ppc/corefile.h", "sim/ppc/vm.c",
"sim/ppc/INSTALL", "sim/ppc/gen-model.c", "sim/ppc/hw_cpu.c",
"sim/ppc/corefile.c", "sim/ppc/hw_opic.c", "sim/ppc/gen-icache.c",
"sim/ppc/events.h", "sim/ppc/os_emul.c", "sim/ppc/emul_generic.c",
"sim/ppc/main.c", "sim/ppc/hw_com.c", "sim/ppc/gen-semantics.c",
"sim/ppc/emul_bugapi.c", "sim/ppc/device.c", "sim/ppc/emul_generic.h",
"sim/ppc/tree.c", "sim/ppc/mon.h", "sim/ppc/interrupts.h",
"sim/ppc/cap.c", "sim/ppc/cpu.c", "sim/ppc/hw_pbh.h",
"sim/ppc/device_table.c", "sim/ppc/lff.c", "sim/ppc/lfc.c",
"sim/ppc/dc-stupid", "sim/ppc/hw_pal.c", "sim/ppc/pcc-spr-table",
"sim/ppc/emul_unix.h", "sim/ppc/words.h", "sim/ppc/basics.h",
"sim/ppc/hw_htab.c", "sim/ppc/lf.h", "sim/ppc/ld-decode.c",
"sim/ppc/sim-endian.c", "sim/ppc/gen-itable.c",
"sim/ppc/decode_expression.h", "sim/ppc/table.h", "sim/ppc/dgen.c",
"sim/ppc/events.c", "sim/ppc/gen-icache.h", "sim/ppc/emul_netbsd.c",
"sim/ppc/igen.c", "sim/ppc/vm_n.h", "sim/ppc/vm.h",
"sim/ppc/hw_jobus.c", "sim/ppc/inline.h",
"sim/testsuite/sim/bfin/s21.s", "sim/testsuite/sim/mips/mips32-dsp2.s",
)

if __name__ == "__main__":
    main()
BEGIN{
FS="\"",
print "/\n  /\n  \".*- buffer-read-only: t -.*- vi\"
  \":set ro:\"
print "  It is created automatically by copying.awk."
print "  Modify copying.awk instead. <= *=\"
print ""
print "#include \"defs.h\"
"
print "#include \"command.h\"
print "#include \"gdbcmd.h\"
print "
print "static void show_copying_command (char *; int);"
print "
print "static void show_warranty_command (char *; int);"
print "
print "void _initialize_copying (void);"
print "
print "static void";
print "show_copying_command (char *ignore; int from_tty);"
print "{";
}

NR == 1;/^[ ]*15\. Disclaimer of Warranty\[ ]*$/
if ($0 ~ //)
{
    printf " printf_filtered (\"\n\n\n\n";
}
else if ($0 !~ /^\[ \t\]*15\. Disclaimer of Warranty\[ ]*$/
{
    printf " printf_filtered (";
    for (i = 1; i < NF; i++)
    printf "%s\"");
}

/^[ ]*15\. Disclaimer of Warranty\[ ]*$/
print "};"
print "
print "static void";
print "show_warranty_command (char *ignore; int from_tty);"
print "{";
}

/^[ ]*15\. Disclaimer of Warranty\[ ]*$; /^[ ]*END OF TERMS AND CONDITIONS[ ]*$/
if (! ($0 ~ /^[ ]*END OF TERMS AND CONDITIONS[ ]*$/))
{
    printf " printf_filtered (";
    for (i = 1; i < NF; i++)
    printf "%s\"");
}

END{
print "};"
print "
print "void"
print ".initialize_copying (void);"
print "{";
print "  add_cmd ("copying", no_set_class, show_copying_command, ");
print "  _("Conditions for redistributing copies of GDB."), ");
print "  &showlist); ");
print "  add_cmd ("warranty", no_set_class, show_warranty_command, ");
print "  _("Various kinds of warranty you do not have."), ");
print "  &showlist); ");
print " ");
print "  /* For old-timers, allow \"info copying\", etc. */ ");
print "  add_info ("copying", show_copying_command, ");
print "  _("Conditions for redistributing copies of GDB.")); ");
print "  add_info ("warranty", show_warranty_command, ");
print "  _("Various kinds of warranty you do not have.")); ");
print "); "}

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Version 2.1, February 1999

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Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and
modification follow. Pay close attention to the difference between a
`work based on the library` and a `work that uses the library`. The
former contains code derived from the library, whereas the latter must
be combined with the library in order to run.

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which contains a notice placed by the copyright holder or other
authorized party saying it may be distributed under the terms of this
Lesser General Public License (also called ``this License``). Each
licensee is addressed as ```you```.

A ```library``` means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

The ```Library```, below, refers to any such software library or work
which has been distributed under these terms. A ```work based on the
Library``` means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into another language. (Hereinafter, translation is
included without limitation in the term ```modification```.)

```Source code``` for a work means the preferred form of the work for
making modifications to it. For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
and installation of the library.

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

@item
You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

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You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

@enumerate a
@item
The modified work must itself be a software library.

@item
You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

@item
You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

- Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

- Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

- Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

- If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

- Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

@end enumerate
For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

- Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.
- Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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DAMAGES.
@end enumerate
@end iftex
@end ifinfo
@end page
@end appendixsubsec
@appendixsubsec How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

To apply these terms, attach the following notices to the library. It is
safest to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least the
``copyright'' line and a pointer to where the full notice is found.

@smallexample
@var{one line to give the library's name and an idea of what it does.}
Copyright (C) @var{year} @var{name of author}

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@end smallexample

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You should also get your employer (if you work as a programmer) or your
school, if any, to sign a `copyright disclaimer' for the library, if
necessary. Here is a sample; alter the names:

@end smallexample

Yoyodyne, Inc., hereby disclaims all copyright interest in the library
`Frob' (a library for tweaking knobs) written by James Random Hacker.

@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
@end smallexample

That's all there is to it!

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Version 2, June 1991

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[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Library General Public License, applies to some
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other libraries whose authors decide to use it. You can use it for
your libraries, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
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if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.
Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means
all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.
If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

d) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

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Library" must include any data and utility programs needed for
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distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

It may happen that this requirement contradicts the license
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accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.
(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.
You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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Appendix: How to Apply These Terms to Your New Libraries

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We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.
Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the Lesser General Public License because it does less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must
be combined with the library in order to run.

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A ```library``` means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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under the terms of Sections 1 and 2 above provided that you accompany
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must be distributed under the terms of Sections 1 and 2 above on a
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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:
Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable `work that uses the Library' as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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b) You must cause the files modified to carry prominent notices
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c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)
Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally
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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while
preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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4. You may copy and distribute the Library (or a portion or
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under the terms of Sections 1 and 2 above provided that you accompany
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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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Version 1.1 - 26 February 2007

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1.341 git-email 1.8.3.1-20

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1.342 git-gnome-keyring 1.8.3.1-20

1.343 git-instaweb 1.8.3.1-20.el7
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1.346 gitk 1.8.3.1-20.el7

1.347 gitweb 1.8.3.1-20.el7

1.348 glib-networking 2.56.1-1.el7

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1.349 glib2 2.56.1 :4.el7_6

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6,
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6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.
For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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1.351 glib2-devel 2.56.1-2.el7

1.352 glibc 2.17 :106.el7_2.8

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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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Whether this is true is especially significant if the work can be
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If such an object file uses only numerical parameters, data
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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without
changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.
You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.
7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

   a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

   b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
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Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.354 glibc 2.17 :157.el7

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@subheading Preamble

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the @dfn{Lesser} General Public License because it does @emph{Less} to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain
special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

@subheading TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

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@item
This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is
included without limitation in the term "modification".)

``Source code'' for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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@item
You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

@enumerate a
@item
The modified work must itself be a software library.
@item
You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
@item
You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

@item
You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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As an exception to the Sections above, you may also combine or link a “work that uses the Library” with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

@enumerate a
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Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable “work that uses the Library”, as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

@item
Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.
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a textual and legal sense, the linked executable is a combined work, a
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Because of this blurred distinction, using the ordinary General
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^L
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However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only
works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.
In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

   a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

   b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

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Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice
That's all there is to it!

commit ef734f09c5ce00eb519ed14598b2a8e39c68387
Author: Joseph Myers <joseph@codesourcery.com>
Date:   Sun Dec 22 14:49:48 2013 +0000

Flatten sysdeps/unix/bsd/bsd4.4 into sysdeps/unix/bsd.

As discussed in
<https://sourceware.org/ml/libc-alpha/2012-04/msg00840.html> and
<https://sourceware.org/ml/libc-alpha/2012-04/msg00989.html>, it seems
appropriate to flatten sysdeps/unix/bsd/bsd4.4 into sysdeps/unix/bsd.

The bulk of the patch is just moving files. The only other changes
are: update paths in sysdeps/mach/hurd/Implies and
sysdeps/unix/sysv/linux/wait3.c; merge the two syscalls.list files,
with the removal of syscalls that were in
sysdeps/unix/bsd/syscalls.list but overridden in the bsd4.4 directory
by .c files there.

Tested x86_64. The installed shared libraries are identical before
and after the patch except for libc.so where the move of wait3.c
(included by sysdeps/unix/sysv/linux/wait3.c) affects debug info, but
the disassembly is unchanged.

* sysdeps/mach/hurd/Implies: Change unix/bsd/bsd4.4 to unix/bsd.
* sysdeps/unix/bsd/syscalls.list (chflags): Add entry from
  sysdeps/unix/bsd/bsd4.4/syscalls.list.
  (fchflags): Likewise.
  (revoke): Likewise.
  (setlogin): Likewise.
  (sigaltstack): Likewise.
  (wait4): Likewise.
  (sigblock): Remove.
  (sigsetmask): Likewise.
  (wait3): Likewise.
  (waitpid): Likewise.
* sysdeps/unix/bsd/bsd4.4/syscalls.list: Remove file.
* sysdeps/unix/sysv/linux/wait3.c: Update directory of included
  file.
* sysdeps/unix/bsd/bsd4.4/Makefile: Move to ...
* sysdeps/unix/bsd/Makefile: ... here.
* sysdeps/unix/bsd/bsd4.4/versions: Move to ...
* sysdeps/unix/bsd/versions: ... here.
* sysdeps/unix/bsd/bsd4.4/bits/socketaddr.h: Move to ...
* sysdeps/unix/bsd/bits/socketaddr.h: ... here.
* sysdeps/unix/bsd/bsd4.4/cmsg_nxthdr.c: Move to ...
* sysdeps/unix/bsd/cmsg_nxthdr.c: ... here.
* sysdeps/unix/bsd/bsd4.4/sigblock.c: Move to ...
* sysdeps/unix/bsd/sigblock.c: ... here.
* sysdeps/unix/bsd/bsd4.4/sigsetmask.c: Move to ...
* sysdeps/unix/bsd/sigsetmask.c: ... here.
* sysdeps/unix/bsd/bsd4.4/sigvec.c: Move to ...
* sysdeps/unix/bsd/sigvec.c: ... here.
* sysdeps/unix/bsd/bsd4.4/tcdrain.c: Move to ...
* sysdeps/unix/bsd/tcdrain.c: ... here.
* sysdeps/unix/bsd/bsd4.4/tcgetattr.c: Move to ...
* sysdeps/unix/bsd/tcgetattr.c: ... here.
* sysdeps/unix/bsd/bsd4.4/tcsetattr.c: Move to ...
* sysdeps/unix/bsd/tcsetattr.c: ... here.
* sysdeps/unix/bsd/bsd4.4/wait.c: Move to ...
* sysdeps/unix/bsd/wait.c: ... here.
* sysdeps/unix/bsd/bsd4.4/wait3.c: Move to ...
* sysdeps/unix/bsd/wait3.c: ... here.
* sysdeps/unix/bsd/bsd4.4/waitpid.c: Move to ...
* sysdeps/unix/bsd/waitpid.c: ... here.

diff --git a/sysdeps/mach/hurd/Implies b/sysdeps/mach/hurd/Implies
index b6063463ce34f3b7..d2d5234e1fd1f522 100644
--- a/sysdeps/mach/hurd/Implies
+++ b/sysdeps/mach/hurd/Implies
@@ -2,4 +2,4 @@
# Hurd-based GNU systems.
 gnu
 # The Hurd provides a rough superset of the functionality of 4.4 BSD.
-unix/bsd/bsd4.4
+unix/bsd
 diff --git a/sysdeps/unix/bsd/bsd4.4/Makefile b/sysdeps/unix/bsd/Makefile
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/Makefile
rename to sysdeps/unix/bsd/Makefile
diff --git a/sysdeps/unix/bsd/bsd4.4/Versions b/sysdeps/unix/bsd/Versions
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/Versions
rename to sysdeps/unix/bsd/Versions
diff --git a/sysdeps/unix/bsd/bsd4.4/bits/sockaddr.h b/sysdeps/unix/bsd/bits/sockaddr.h
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/bits/sockaddr.h
rename to sysdeps/unix/bsd/bits/sockaddr.h
diff --git a/sysdeps/unix/bsd/bsd4.4/syscalls.list b/sysdeps/unix/bsd/bsd4.4/syscalls.list
deleted file mode 100644
index a4d3546854d24ac61..0000000000000000
--- a/sysdeps/unix/bsd/bsd4.4/syscalls.list
+++ /dev/null
@@ -1,8 +0,0 @@
-# File nameCallerSyscall name# argsStrong nameWeak names
- chflags-chflags2chflags
-fchflags-fchflags2fchflags
-revoke-revoke1revoke
-setlogin-setlogin2setlogin
-sigaltstack-sigaltstack2__sigaltstacksigaltstack
-wait4-wait44__wait4wait4

diff --git a/sysdeps/unix/bsd4.4/cmsg_nxthdr.c b/sysdeps/unix/bsd/cmsg_nxthdr.c
similarity index 100%
rename from sysdeps/unix/bsd4.4/cmsg_nxthdr.c
rename to sysdeps/unix/bsd/cmsg_nxthdr.c
diff --git a/sysdeps/unix/bsd4.4/sigblock.c b/sysdeps/unix/bsd/sigblock.c
similarity index 100%
rename from sysdeps/unix/bsd4.4/sigblock.c
rename to sysdeps/unix/bsd/sigblock.c
diff --git a/sysdeps/unix/bsd4.4/sigsetmask.c b/sysdeps/unix/bsd/sigsetmask.c
similarity index 100%
rename from sysdeps/unix/bsd4.4/sigsetmask.c
rename to sysdeps/unix/bsd/sigsetmask.c
diff --git a/sysdeps/unix/bsd4.4/sigvec.c b/sysdeps/unix/bsd/sigvec.c
similarity index 100%
rename from sysdeps/unix/bsd4.4/sigvec.c
rename to sysdeps/unix/bsd/sigvec.c
diff --git a/sysdeps/unix/bsd/syscalls.list b/sysdeps/unix/bsd/syscalls.list
index e84819dc1f19d148..9f48a144d475f342 100644
--- a/sysdeps/unix/bsd/syscalls.list
+++ b/sysdeps/unix/bsd/syscalls.list
@@ -1,14 +1,16 @@
# File nameCallerSyscall name# argsStrong nameWeak names
+chflags-chflags2chflags
+fchflags-fchflags2fchflags
-flock-flock2__flockflock
-getdents-getdirentries4__getdirentriesgetdirentries
-getdtsz-getdtablesize0__getdtablesizegetdtablesize
-getpagesize-getpagesize0__getpagesizegetpagesize
-killpg-killpg2killpg
-sigblock-sigblock1__sigblocksigblock
-revoke-revoke1revoke
-setlogin-setlogin2setlogin
-sigaltstack-sigaltstack2__sigaltstacksigaltstack
-sigpause-sigpauses1__sigpausesigpause
-sigsetmask-sigsetmask1__sigsetmasksigsetmask
-sigstack-sigstack2sigstack
-sigvec-sigvec3__sigvecssigvec
-wait3-wait33__wait3wait3
-waitpid-waitpid3__waitpidwaitpid
-wait4-wait44__wait4wait4
diff --git a/sysdeps/unix/bsd4.4/tcdrain.c b/sysdeps/unix/bsd/tcdrain.c
similarity index 100%
rename from sysdeps/unix/bsd4.4/tcdrain.c
rename to sysdeps/unix/bsd/tcdrain.c
diff --git a/sysdeps/unix/bsd4.4/tcgetattr.c b/sysdeps/unix/bsd/tcgetattr.c
similarity index 100%
rename from sysdeps/unix/bsd4.4/tcgetattr.c
rename to sysdeps/unix/bsd/tcgetattr.c
diff --git a/sysdeps/unix/bsd4.4/tcsetattr.c b/sysdeps/unix/bsd/tcsetattr.c
similarity index 100%
rename from sysdeps/unix/bsd4.4/tcsetattr.c
rename to sysdeps/unix/bsd/tcsetattr.c
diff --git a/sysdeps/unix/bsd4.4/wait.c b/sysdeps/unix/bsd/wait.c
similarity index 100%
rename from sysdeps/unix/bsd4.4/wait.c
rename to sysdeps/unix/bsd/wait.c
diff --git a/sysdeps/unix/bsd4.4/wait3.c b/sysdeps/unix/bsd/wait3.c
similarity index 100%
rename from sysdeps/unix/bsd4.4/wait3.c
rename to sysdeps/unix/bsd/wait3.c
diff --git a/sysdeps/unix/bsd4.4/waitpid.c b/sysdeps/unix/bsd/waitpid.c
similarity index 100%
rename from sysdeps/unix/bsd4.4/waitpid.c
rename to sysdeps/unix/bsd/waitpid.c
diff --git a/sysdeps/unix/sysv/linux/wait3.c b/sysdeps/unix/sysv/linux/wait3.c
index 0b3bdee771782b7b..2ff027f0e1d83eb2 100644
--- a/sysdeps/unix/sysv/linux/wait3.c
+++ b/sysdeps/unix/sysv/linux/wait3.c
@@ -1 +1 @@
-#include <sysdeps/unix/bsd4.4/wait3.c>
+#include <sysdeps/unix/bsd/wait3.c>

1.357 glibc-headers 2.17-260

1.357.1 Available under license:

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commit ef7344f09c5ce00eb519ed1459b2a8e39c68387
Author: Joseph Myers <joseph@codesourcery.com>
Date:   Sun Dec 22 14:49:48 2013 +0000

Flatten sysdeps/unix/bsd/bsd4.4 into sysdeps/unix/bsd.

As discussed in <https://sourceware.org/ml/libc-alpha/2012-04/msg00840.html> and <https://sourceware.org/ml/libc-alpha/2012-04/msg00989.html>, it seems appropriate to flatten sysdeps/unix/bsd/bsd4.4 into sysdeps/unix/bsd.

The bulk of the patch is just moving files. The only other changes are: update paths in sysdeps/mach/hurd/Implies and sysdeps/unix/sysv/linux/wait3.c; merge the two syscalls.list files, with the removal of syscalls that were in sysdeps/unix/bsd/syscalls.list but overridden in the bsd4.4 directory by .c files there.

Tested x86_64. The installed shared libraries are identical before
and after the patch except for libc.so where the move of wait3.c (included by sysdeps/unix/sysv/linux/wait3.c) affects debug info, but the disassembly is unchanged.

* sysdeps/mach/hurd/Implies: Change unix/bsd/bsd4.4 to unix/bsd.
* sysdeps/unix/bsd/syscalls.list (chflags): Add entry from sysdeps/unix/bsd/bsd4.4/syscalls.list.
  (fchflags): Likewise.
  (revoke): Likewise.
  (setlogin): Likewise.
  (sigaltstack): Likewise.
  (wait4): Likewise.
  (sigblock): Remove.
  (sigsetmask): Likewise.
  (wait3): Likewise.
  (waitpid): Likewise.
* sysdeps/unix/bsd/bsd4.4/syscalls.list: Remove file.
* sysdeps/unix/bsd/bsd4.4/Makefile: Move to ...
* sysdeps/unix/bsd/Makefile: ... here.
* sysdeps/unix/bsd/bsd4.4/Version: Move to ...
* sysdeps/unix/bsd/Version: ... here.
* sysdeps/unix/bsd/bsd4.4/bits/sockaddr.h: Move to ...
* sysdeps/unix/bsd/bits/sockaddr.h: ... here.
* sysdeps/unix/bsd/bsd4.4/cmsg_nxthdr.c: Move to ...
* sysdeps/unix/bsd/cmsg_nxthdr.c: ... here.
* sysdeps/unix/bsd/bsd4.4/sigblock.c: Move to ...
* sysdeps/unix/bsd/sigblock.c: ... here.
* sysdeps/unix/bsd/bsd4.4/sigsetmask.c: Move to ...
* sysdeps/unix/bsd/sigsetmask.c: ... here.
* sysdeps/unix/bsd/bsd4.4/sigvec.c: Move to ...
* sysdeps/unix/bsd/sigvec.c: ... here.
* sysdeps/unix/bsd/bsd4.4/tcdrain.c: Move to ...
* sysdeps/unix/bsd/tcdrain.c: ... here.
* sysdeps/unix/bsd/bsd4.4/tcgetattr.c: Move to ...
* sysdeps/unix/bsd/tcgetattr.c: ... here.
* sysdeps/unix/bsd/bsd4.4/tcsetattr.c: Move to ...
* sysdeps/unix/bsd/tcsetattr.c: ... here.
* sysdeps/unix/bsd/bsd4.4/wait.c: Move to ...
* sysdeps/unix/bsd/wait.c: ... here.
* sysdeps/unix/bsd/bsd4.4/wait3.c: Move to ...
* sysdeps/unix/bsd/wait3.c: ... here.
* sysdeps/unix/bsd/bsd4.4/waitpid.c: Move to ...
* sysdeps/unix/bsd/waitpid.c: ... here.

diff --git a/sysdeps/mach/hurd/Implies b/sysdeps/mach/hurd/Implies
index b6063463ce34f3b7..d2d5234e1fd1522 100644
--- a/sysdeps/mach/hurd/Implies
+++ b/sysdeps/mach/hurd/Implies
@@ -2,4 +2,4 @@
# Hurd-based GNU systems.
gnu
# The Hurd provides a rough superset of the functionality of 4.4 BSD.
-unix/bsd/bsd4.4
+unix/bsd
diff --git a/sysdeps/unix/bsd/bsd4.4/Makefile b/sysdeps/unix/bsd/Makefile
 similarity index 100%
 rename from sysdeps/unix/bsd/bsd4.4/Makefile
 rename to sysdeps/unix/bsd/Makefile
diff --git a/sysdeps/unix/bsd/bsd4.4/Versions b/sysdeps/unix/bsd/Versions
 similarity index 100%
 rename from sysdeps/unix/bsd/bsd4.4/Versions
 rename to sysdeps/unix/bsd/Versions
diff --git a/sysdeps/unix/bsd/bsd4.4/bits/sockaddr.h b/sysdeps/unix/bsd/bits/sockaddr.h
 similarity index 100%
 rename from sysdeps/unix/bsd/bsd4.4/bits/sockaddr.h
 rename to sysdeps/unix/bsd/bits/sockaddr.h
diff --git a/sysdeps/unix/bsd/bsd4.4/syscalls.list b/sysdeps/unix/bsd/bsd4.4/syscalls.list
 deleted file mode 100644
 index a4d354685424ac61..0000000000000000
 --- a/sysdeps/unix/bsd/bsd4.4/syscalls.list
+++ /dev/null
@@ -1,8 +0,0 @@
-# File nameCallerSyscall name# argsStrong nameWeak names
-
-chflags-chflags2chflags
-fchflags-fchflags2fchflags
-revoke-revoke1revoke
-setlogin-setlogin2setlogin
-sigaltstack-sigaltstack2__sigaltstacksigaltstack
-wait4-wait44__wait4wait4

diff --git a/sysdeps/unix/bsd/bsd4.4/cmsg_nxthdr.c b/sysdeps/unix/bsd/cmsg_nxthdr.c
 similarity index 100%
 rename from sysdeps/unix/bsd/bsd4.4/cmsg_nxthdr.c
 rename to sysdeps/unix/bsd/cmsg_nxthdr.c
diff --git a/sysdeps/unix/bsd/bsd4.4/sigblock.c b/sysdeps/unix/bsd/sigblock.c
 similarity index 100%
 rename from sysdeps/unix/bsd/bsd4.4/sigblock.c
 rename to sysdeps/unix/bsd/sigblock.c
diff --git a/sysdeps/unix/bsd/bsd4.4/sigsetmask.c b/sysdeps/unix/bsd/sigsetmask.c
 similarity index 100%
 rename from sysdeps/unix/bsd/bsd4.4/sigsetmask.c
 rename to sysdeps/unix/bsd/sigsetmask.c
diff --git a/sysdeps/unix/bsd/bsd4.4/sigvec.c b/sysdeps/unix/bsd/sigvec.c
 similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/sigvec.c
rename to sysdeps/unix/bsd/sigvec.c
diff --git a/sysdeps/unix/bsd/syscalls.list b/sysdeps/unix/bsd/syscalls.list
index e84819dc1f19d148...9f48a144d475f342 100644
--- a/sysdeps/unix/bsd/syscalls.list
+++ b/sysdeps/unix/bsd/syscalls.list
@@ -1,14 +1,16 @@
# File nameCallerSyscall name# argsStrong nameWeak names

+chflags-chflags2chflags
+fchflags-fchflags2fchflags
flock-flock2____flockflock
getdents-getdirent4__getdirent4getdirent4
getdtsz-getdtablesize0__getdtablesizegetdtablesize
getpagesize-getpagesize0__getpagesizegetpagesize
killpg-killpg2killpg
-sigblock-sigblock1__sigblocksigblock
+revoke-revoke1revoke
+setlogin-setlogin2setlogin
+sigaltstack-sigaltstack2__sigaltstacksigaltstack
sigpause-sigpause1__sigpausesigpause
-sigsetmask-sigsetmask1__sigsetmasksigsetmask
sigstack-sigstack2sigstack
sigvec-sigvec3__sigvecssigvec
-wait3-wait33__wait3wait3
-waitpid-waitpid3__waitpidwaitpid
+wait4-wait44__wait4wait4
diff --git a/sysdeps/unix/bsd/bsd4.4/tcdrain.c b/sysdeps/unix/bsd/tcdrain.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/tcdrain.c
rename to sysdeps/unix/bsd/tcdrain.c
diff --git a/sysdeps/unix/bsd/bsd4.4/tcgetattr.c b/sysdeps/unix/bsd/tcgetattr.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/tcgetattr.c
rename to sysdeps/unix/bsd/tcgetattr.c
diff --git a/sysdeps/unix/bsd/bsd4.4/tcsetattr.c b/sysdeps/unix/bsd/tcsetattr.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/tcsetattr.c
rename to sysdeps/unix/bsd/tcsetattr.c
diff --git a/sysdeps/unix/bsd/bsd4.4/wait.c b/sysdeps/unix/bsd/wait.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/wait.c
rename to sysdeps/unix/bsd/wait.c
diff --git a/sysdeps/unix/bsd/bsd4.4/wait3.c b/sysdeps/unix/bsd/wait3.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/wait3.c
rename to sysdeps/unix/bsd/wait3.c
diff --git a/sysdeps/unix/bsd/bsd4.4/waitpid.c b/sysdeps/unix/bsd/waitpid.c
rename from sysdeps/unix/bsd/bsd4.4/waitpid.c
rename to sysdeps/unix/bsd/waitpid.c
diff --git a/sysdeps/unix/sysv/linux/wait3.c b/sysdeps/unix/sysv/linux/wait3.c
index 0b3bdee771782b7b..2ff027f0e1d83eb2 100644
--- a/sysdeps/unix/sysv/linux/wait3.c
+++ b/sysdeps/unix/sysv/linux/wait3.c
@@ -1 +1 @@
-#include <sysdeps/unix/bsd/bsd4.4/wait3.c>
+#include <sysdeps/unix/bsd/wait3.c>

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>This is the first released version of the library GPL.  It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

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@enumerate
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@item Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user’s computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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@item Verify that the user has already received a copy of these materials or that you have already sent this user a copy.
@end enumerate

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You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact
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[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software
sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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Appendix: How to Apply These Terms to Your New Libraries

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You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
commit ef7344f09c5ce00eb519ed14598b2a8e39c68387
Author: Joseph Myers <joseph@codesourcery.com>
Date:   Sun Dec 22 14:49:48 2013 +0000

Flatten sysdeps/unix/bsd/bsd4.4 into sysdeps/unix/bsd.

As discussed in
<https://sourceware.org/ml/libc-alpha/2012-04/msg00840.html> and
<https://sourceware.org/ml/libc-alpha/2012-04/msg00989.html>, it seems appropriate to flatten sysdeps/unix/bsd/bsd4.4 into sysdeps/unix/bsd.

The bulk of the patch is just moving files. The only other changes are: update paths in sysdeps/mach/hurd/Implies and sysdeps/unix/sysv/linux/wait3.c; merge the two syscalls.list files, with the removal of syscalls that were in sysdeps/unix/bsd/syscalls.list but overridden in the bsd4.4 directory by .c files there.

Tested x86_64. The installed shared libraries are identical before and after the patch except for libc.so where the move of wait3.c (included by sysdeps/unix/sysv/linux/wait3.c) affects debug info, but the disassembly is unchanged.

* sysdeps/mach/hurd/Implies: Change unix/bsd/bsd4.4 to unix/bsd.
* sysdeps/unix/bsd/syscalls.list (chflags): Add entry from sysdeps/unix/bsd/bsd4.4=syscalls.list.
  (fchflags): Likewise.
  (revoke): Likewise.
  (setlogin): Likewise.
(sigaltstack): Likewise.
(wait4): Likewise.
(sigblock): Remove.
(sigsetmask): Likewise.
(wait3): Likewise.
(waitpid): Likewise.

* sysdeps/unix/bsd/bsd4.4/syscalls.list: Remove file.
* sysdeps/unix/bsd/bsd4.4/Makefile: Move to ...
* sysdeps/unix/bsd/Makefile: ... here.
* sysdeps/unix/bsd4.4/Versions: Move to ...
* sysdeps/unix/bsd/Versions: ... here.
* sysdeps/unix/bsd/bsd4.4/bits/sockaddr.h: Move to ...
* sysdeps/unix/bsd/bits/sockaddr.h: ... here.
* sysdeps/unix/bsd/bsd4.4/cmsg_nxthdr.c: Move to ...
* sysdeps/unix/bsd/cmsg_nxthdr.c: ... here.
* sysdeps/unix/bsd/bsd4.4/sigblock.c: Move to ...
* sysdeps/unix/bsd/sigblock.c: ... here.
* sysdeps/unix/bsd/bsd4.4/sigsetmask.c: Move to ...
* sysdeps/unix/bsd/sigsetmask.c: ... here.
* sysdeps/unix/bsd/bsd4.4/sigvec.c: Move to ...
* sysdeps/unix/bsd/sigvec.c: ... here.
* sysdeps/unix/bsd/bsd4.4/tcdrain.c: Move to ...
* sysdeps/unix/bsd/tcdrain.c: ... here.
* sysdeps/unix/bsd/bsd4.4/tcgetattr.c: Move to ...
* sysdeps/unix/bsd/tcgetattr.c: ... here.
* sysdeps/unix/bsd/bsd4.4/tcsetattr.c: Move to ...
* sysdeps/unix/bsd/tcsetattr.c: ... here.
* sysdeps/unix/bsd/bsd4.4/wait.c: Move to ...
* sysdeps/unix/bsd/wait.c: ... here.
* sysdeps/unix/bsd/bsd4.4/wait3.c: Move to ...
* sysdeps/unix/bsd/wait3.c: ... here.
* sysdeps/unix/bsd/bsd4.4/waitpid.c: Move to ...
* sysdeps/unix/bsd/waitpid.c: ... here.

diff --git a/sysdeps/mach/hurd/Implies b/sysdeps/mach/hurd/Implies
index b6063463ce34f3b7..d2d5234c1fdf1522 100644
--- a/sysdeps/mach/hurd/Implies
+++ b/sysdeps/mach/hurd/Implies
@@ -2,4 +2,4 @@
# Hurd-based GNU systems.
gnu
# The Hurd provides a rough superset of the functionality of 4.4 BSD.
-unix/bsd/bsd4.4
+unix/bsd
diff --git a/sysdeps/unix/bsd/bsd4.4/Makefile b/sysdeps/unix/bsd/Makefile
similarity index 100%
rename from sysdeps/unix/bsd4.4/Makefile
rename to sysdeps/unix/bsd/Makefile
diff --git a/sysdeps/unix/bsd4.4/Versions b/sysdeps/unix/bsd/Versions
similarity index 100%
rename from sysdeps/unix/bsd4.4/Versions
rename to sysdeps/unix/bsd/Versions
diff --git a/sysdeps/unix/bsd4.4/bits/sockaddr.h b/sysdeps/unix/bsd/bits/sockaddr.h
similarity index 100%
rename from sysdeps/unix/bsd4.4/bits/sockaddr.h
rename to sysdeps/unix/bsd/bits/sockaddr.h
diff --git a/sysdeps/unix/bsd4.4/syscalls.list b/sysdeps/unix/bsd4.4/syscalls.list
deleted file mode 100644
index a4d354685424ac61..0000000000000000
--- a/sysdeps/unix/bsd4.4/syscalls.list
+++ /dev/null
@@ -1,8 +0,0 @@
-# File nameCallerSyscall name# argsStrong nameWeak names
-
-chflags-chflags2chflags
-fchflags-fchflags2fchflags
-revoke-revoke1revoke
-setlogin-setlogin2setlogin
-sigaltstack-sigaltstack2__sigaltstacksigaltstack
-wait4-wait4__wait4wait4
diff --git a/sysdeps/unix/bsd4.4/cmsg_nxthdr.c b/sysdeps/unix/bsd/cmsg_nxthdr.c
similarity index 100%
rename from sysdeps/unix/bsd4.4/cmsg_nxthdr.c
rename to sysdeps/unix/bsd/cmsg_nxthdr.c
diff --git a/sysdeps/unix/bsd4.4/sigblock.c b/sysdeps/unix/bsd/sigblock.c
similarity index 100%
rename from sysdeps/unix/bsd4.4/sigblock.c
rename to sysdeps/unix/bsd/sigblock.c
diff --git a/sysdeps/unix/bsd4.4/sigsetmask.c b/sysdeps/unix/bsd/sigsetmask.c
similarity index 100%
rename from sysdeps/unix/bsd4.4/sigsetmask.c
rename to sysdeps/unix/bsd/sigsetmask.c
diff --git a/sysdeps/unix/bsd4.4/sigvec.c b/sysdeps/unix/bsd/sigvec.c
similarity index 100%
rename from sysdeps/unix/bsd4.4/sigvec.c
rename to sysdeps/unix/bsd/sigvec.c
diff --git a/sysdeps/unix/bsd/syscalls.list b/sysdeps/unix/bsd/syscalls.list
index e84819dc1f19d148..9f48a144d475f342 100644
--- a/sysdeps/unix/bsd/syscalls.list
+++ b/sysdeps/unix/bsd/syscalls.list
@@ -1,14 +1,16 @@
-# File nameCallerSyscall name# argsStrong nameWeak names
-
+chflags-chflags2chflags
1.359 glibc_GPLv2 2.17 :196.el7

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1.376 gnupg2 2.0.22 :5.el7_5

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##
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1.381 gobject-introspection 1.56.1 :1.el7

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1.384 golang 1.10-0.el7
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# The agreement for individuals can be filled out on the web.
#
# When adding J Random Contributor's name to this file,
# either J's name or J's organization's name should be
# added to the AUTHORS file, depending on whether the
# individual or corporate CLA was used.

# Names should be added to this file like so:
#  Individual's name <submission email address>
#  Individual's name <submission email address> <email2> <emailN>
#
# An entry with multiple email addresses specifies that the
# first address should be used in the submit logs and
# that the other addresses should be recognized as the
# same person when interacting with Gerrit.

# Please keep the list sorted.

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1.387 golang-bin 1.10-0

1.388 golang-misc 1.10 :0.el7.centos

1.389 golang-src 1.10 :0.el7.centos

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digraph G {
rankdir="LR";
label = "label demo";
labeljust="left";
subgraph cluster0 {
 a;
b;a->b;
label = "cluster0";
labelloc="bottom"
}
subgraph cluster1 {
c;d;c->d;
label = "cluster1";
labelloc="top"
}
}
digraph G {
rankdir="LR";
label = "label demo";
subgraph cluster0 {
a;
b;a->b;
label = "cluster0";
labeljust="left"
}
subgraph cluster1 {
c;d;c->d;
label = "cluster1"
}
}
This package was originally debianized by Stephen M Moraco <stephen@debian.org> on Fri, 31 Dec 1999 15:37:17 -0700.

It was downloaded from http://www.graphviz.org/

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2006-2008, Cyril Brulebois <cyril.brulebois@enst-bretagne.fr>

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*L
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The `gxditview` output device. It is based on X11’s `xditview` program and thus has the X license.

Macro Packages

----------
. The `-mdoc` macro set, using the BSD license.

    tmac/doc.tmac
    tmac/doc-old.tmac
    tmac/doc-common
    tmac/doc-ditroff
    tmac/doc-nroff
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    tmac/groff_mdoc.man

. The `-me` macro set, using the BSD license.

    tmac/e.tmac
    tmac/groff_me.man
    doc/meintro.me
    doc/meref.me

Hyphenation Patterns
---------------------

. The file `tmac/hyphen.us` is identical to the file `hyphen.tex`, part of the TeX system written by Donald E. Knuth; the master file can be found at

    ftp://labrea.stanford.edu/pub/tex/dist/lib/hyphen.tex

It has been renamed for consistency, i.e., to make patterns available under the filenames `hyphen.<language>`, e.g. `hyphen.de` or `hyphen.uk`.

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. The file `tmac/hyphen.fr` contains the same patterns as the file `frhyph.tex` (for TeX), which can be found at

    http://dante.ctan.org/CTAN/language/hyphenation/frhyph.tex

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. The file `tmac/hyphen.sv` is identical to the file `svhyph.tex`, which can be found at

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The files `tmac/hyphen.det' and `tmac/hyphen.den' contain the same patterns as the files `dehyphn.tex' and `dehypht.tex' (for TeX), which can be found at

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The file `src/libs/snprintf/snprintf.c', written by Mark Martinec <mark.martinec@ijs.si>.

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src/preproc/grn/gprint.h
src/preproc/grn/hdb.cpp
src/preproc/grn/hgraph.cpp
src/preproc/grn/hpoint.cpp
src/preproc/grn/main.cpp

The `gxditview' output device. It is based on X11's `xditview' program and thus has the X license.

src/devices/xditview/DESC.in
src/devices/xditview/Dvi.c
src/devices/xditview/Dvi.h
src/devices/xditview/DviP.h
src/devices/xditview/FontMap
src/devices/xditview/GXditview.ad
src/devices/xditview/Menu.h
src/devices/xditview/ad2c
src/devices/xditview/device.c
src/devices/xditview/device.h
src/devices/xditview/draw.c
src/devices/xditview/font.c
src/devices/xditview/gray1.bm
src/devices/xditview/gray2.bm
src/devices/xditview/gray3.bm
src/devices/xditview/gray4.bm
src/devices/xditview/gray5.bm
src/devices/xditview/gray6.bm
src/devices/xditview/gray7.bm
src/devices/xditview/gray8.bm
src/devices/xditview/gxditview.man
src/devices/xditview/lex.c  
src/devices/xditview/page.c  
src/devices/xditview/parse.c  
src/devices/xditview/xdit.bm  
src/devices/xditview/xdit_mask.bm  
src/devices/xditview/xditview.c  

src/include/DviChar.h  
src/include/XFontName.h  

src/libs/libxutil/DviChar.c  
src/libs/libxutil/XFontName.c  

Macro Packages  
--------------
. The -mdoc macro set, using the BSD license.
   tmac/doc.tmac  
   tmac/doc-old.tmac  
   tmac/doc-common  
   tmac/doc-ditroff  
   tmac/doc-nroff  
   tmac/doc-syms  
   tmac/groff_mdoc.man  

. The -me macro set, using the BSD license.
   tmac/e.tmac  
   tmac/groff_me.man  
   doc/meintro.me  
   doc/meref.me  

Hyphenation Patterns  
---------------------
. The file `tmac/hyphen.us' is identical to the file `hyphen.tex', part of the TeX system written by Donald E. Knuth; the master file can be found at  

   ftp://labrea.stanford.edu/pub/tex/dist/lib/hyphen.tex  

It has been renamed for consistency, i.e., to make patterns available under the filenames `hyphen.<language>', e.g. `hyphen.de' or `hyphen.uk'.
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. The file `tmac/hyphen.fr' contains the same patterns as the file `frhyph.tex' (for TeX), which can be found at

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. The file `tmac/hyphenex.det' is identical to the file `dehyphtex.tex', which can be found at

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1.403 grpc 1.2.0-1

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1.405 grpc-devel 1.2.0 :1.el7.centos

1.406 grub-common 2.02-0.76.el7
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From 0000000000000000000000000000000000000000 Mon Sep 17 00:00:00 2001
From: Vladimir Serbinenko <phcoder@gmail.com>
Date: Fri, 20 Mar 2015 11:13:58 +0100
Subject: [PATCH] cacheinfo: Add missing license information.

---
grub-core/commands/cacheinfo.c | 2 ++
1 file changed, 2 insertions(+)
diff --git a/grub-core/commands/cacheinfo.c b/grub-core/commands/cacheinfo.c
index ead6ff82cfc..d34a346964c 100644
--- a/grub-core/commands/cacheinfo.c
+++ b/grub-core/commands/cacheinfo.c
@@ -23,6 +23,8 @@
 #include <grub/i18n.h>
 #include <grub/disk.h>

 +GRUB_MOD_LICENSE ("GPLv3+");
 +
 static grub_err_t
 grub_rescue_cmd_info (struct grub_command *cmd __attribute__ ((unused)),

int argc __attribute__((unused)),

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From 0000000000000000000000000000000000000000 Mon Sep 17 00:00:00 2001
From: dann frazier <dann.frazier@canonical.com>
Date: Thu, 21 May 2015 10:28:48 -0600
Subject: [PATCH] arm64/setjmp: Add missing license macro

Including the setjmp module in an arm64-efi image will cause it to immediately exit with an "incompatible license" error.

The source file includes a GPLv3+ boilerplate, so fix this by declaring a GPLv3+ license using the GRUB_MOD_LICENSE macro.

Signed-off-by: dann frazier <dann.frazier@canonical.com>
---
grub-core/lib/arm64/setjmp.S | 2 ++
1 file changed, 2 insertions(+)

diff --git a/grub-core/lib/arm64/setjmp.S b/grub-core/lib/arm64/setjmp.S
index adaafe40f71..eabfd99b296 100644
--- a/grub-core/lib/arm64/setjmp.S
+++ b/grub-core/lib/arm64/setjmp.S
@@ -17,8 +17,10 @@
 */

#include <grub/symbol.h>
#include <grub/dl.h>

.file"setjmp.S"
+GRUB_MOD_LICENSE "GPLv3+"
.text

/*
From 0000000000000000000000000000000000000000 Mon Sep 17 00:00:00 2001
From: Stephane Rochoy <sheda>
Date: Sun, 22 Jun 2014 01:35:52 +0200
Subject: [PATCH] * grub-core/loader/i386/bsd.c (grub_netbsd_boot): Pass
pointer to EFI system table.
---
grub-core/loader/i386/bsd.c | 8 ++++++++
include/grub/i386/netbsd_bootinfo.h | 7 ++++++
ChangeLog | 5 ++++
3 files changed, 20 insertions(+)

diff --git a/grub-core/loader/i386/bsd.c b/grub-core/loader/i386/bsd.c
index 41ef9109ee1..8f691e0e2d1 100644
--- a/grub-core/loader/i386/bsd.c
+++ b/grub-core/loader/i386/bsd.c
@@ -1145,6 +1145,14 @@ grub_netbsd_boot (void)
      if (err)
      return err;

+#ifdef GRUB_MACHINE_EFI
+  err = grub_bsd_add_meta (NETBSD_BTINFO_EFI,
+                          &grub_efi_system_table,
+                          sizeof (grub_efi_system_table));
+  if (err)
+    return err;
+#endif
+
{
  struct bsd_tag *tag;
  tag_buf_len = 0;

diff --git a/include/grub/i386/netbsd_bootinfo.h b/include/grub/i386/netbsd_bootinfo.h
index e48c19b4089..9b4f4604103 100644
--- a/include/grub/i386/netbsd_bootinfo.h
+++ b/include/grub/i386/netbsd_bootinfo.h
@@ -58,6 +58,8 @@
#define NETBSD_BTINFO_BOOTWEDGE    10
#define NETBSD_BTINFO_MODULES      11
#define NETBSD_BTINFO_FRAMEBUF    12
+#define NETBSD_BTINFO_USERCONFCOMMANDS 13
+#define NETBSD_BTINFO_EFI        14

struct grub_netbsd_bootinfo
{

   #define GRUB_NETBSD_MAX_ROOTDEVICE_LEN 16

   +typedef struct grub_netbsd_btinfo_efi
   +{
   +   void *pa_systbl; /* Physical address of the EFI System Table */
   +};
   +
   +

diff --git a/ChangeLog b/ChangeLog
index abf8f4b2716..0cdd095a498 100644
--- a/ChangeLog
+++ b/ChangeLog
@@ -1,3 +1,8 @@
+2014-06-21 Stephane Rochoy <sheda>
+
+* grub-core/loader/i386/bsd.c (grub_netbsd_boot): Pass pointer to
+EFI system table.
+
+2014-06-21 Stephane Rochoy <sheda>

* grub-core/commands/efi/lsefisystab.c (grub_cmd_lsefisystab): Show

1.407 grub2 2.02 :0.34.el7.centos

1.407.1 Available under license:

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Version 3, 29 June 2007
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1.408 grub2-tools-minimal 2.02 :0.76.el7.1

1.408.1 Available under license:

From 0000000000000000000000000000000000000000 Mon Sep 17 00:00:00 2001
From: Stephane Rochoy <sheda>
Date: Sun, 22 Jun 2014 01:35:52 +0200
Subject: [PATCH] * grub-core/loader/i386/bsd.c (grub_netbsd_boot): Pass pointer to EFI system table.

---

text

```diff
--- a/grub-core/loader/i386/bsd.c
+++ b/grub-core/loader/i386/bsd.c
@@ -1145,6 +1145,14 @@ grub_netbsd_boot (void)
     if (err)
         return err;

+ ifdef GRUB_MACHINE_EFI
+ err = grub_bsd_add_meta (NETBSD_BTINFO_EFI,
+     &grub_efi_system_table,
+     sizeof (grub_efi_system_table));
+ if (err)
+     return err;
+ else
+     #endif
+ }
+
```

```diff
--- a/include/grub/i386/netbsd_bootinfo.h
+++ b/include/grub/i386/netbsd_bootinfo.h
@@ -58,6 +58,8 @@
 #define NETBSD_BTINFO_BOOTWEDGE 10
 #define NETBSD_BTINFO_MODULES 11
 #define NETBSD_BTINFO_FRAMEBUFFER 12
+#define NETBSD_BTINFO_USERCONFCOMMANDS 13
+#define NETBSD_BTINFO_EFI 14

 struct grub_netbsd_bootinfo
```
@@ -146,4 +148,9 @@ struct grub_netbsd_btinfo_framebuf

#define GRUB_NETBSD_MAX_ROOTDEVICE_LEN 16

+struct grub_netbsd_btinfo_efi
+{
+  void *pa_systbl; /* Physical address of the EFI System Table */
+};
+
+#endif

diff --git a/ChangeLog b/ChangeLog
index abf8f4b2716..0cdd095a498 100644
--- a/ChangeLog
+++ b/ChangeLog
@@ -1,3 +1,8 @@
+2014-06-21  Stephane Rochoy <sheda>
+	* grub-core/loader/i386/bsd.c (grub_netbsd_boot): Pass pointer to
+  EFI system table.
+ 2014-06-21  Stephane Rochoy <sheda>

* grub-core/commands/efi/lsefisystab.c (grub_cmd_lsefisystab): Show
  From 000000000000000000000000000000000 Mon Sep 17 00:00:00 2001
  From: Vladimir Serbinenko <phcoder@gmail.com>
  Date: Fri, 20 Mar 2015 11:13:58 +0100
  Subject: [PATCH] cacheinfo: Add missing license information.

---

grub-core/commands/cacheinfo.c | 2 ++
1 file changed, 2 insertions(+)

diff --git a/grub-core/commands/cacheinfo.c b/grub-core/commands/cacheinfo.c
index ead6ff82cfc..d34a346964c 100644
--- a/grub-core/commands/cacheinfo.c
+++ b/grub-core/commands/cacheinfo.c
@@ -23,6 +23,8 @@
#
+GRUB_MOD_LICENSE ("GPLv3+”);
 +
 static grub_err_t
 grub_rescue_cmd_info (struct grub_command *cmd __attribute__ ((unused)),
   int argc __attribute__ ((unused)),
   From 000000000000000000000000000000000 Mon Sep 17 00:00:00 2001
   From: dann frazier <dann.frazier@canonical.com>
Including the setjmp module in an arm64-efi image will cause it to immediately exit with an "incompatible license" error.

The source file includes a GPLv3+ boilerplate, so fix this by declaring a GPLv3+ license using the GRUB_MOD_LICENSE macro.

Signed-off-by: dann frazier <dann.frazier@canonical.com>
---
grub-core/lib/arm64/setjmp.S | 2 ++
1 file changed, 2 insertions(+)

diff --git a/grub-core/lib/arm64/setjmp.S b/grub-core/lib/arm64/setjmp.S
index adaafe40f71..eabfd99b296 100644
--- a/grub-core/lib/arm64/setjmp.S
+++ b/grub-core/lib/arm64/setjmp.S
@@ -17,8 +17,10 @@
*/

#include <grub/symbol.h>
+#include <grub/dl.h>

.file"setjmp.S"
+GRUB_MOD_LICENSE "GPLv3+
.text

/*
 GNU GENERAL PUBLIC LICENSE
 Version 3, 29 June 2007

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In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.
The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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d) If a facility in the modified Library refers to a function or a
table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.
This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
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of these things:

a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
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to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
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the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
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from a designated place, offer equivalent access to copy the above
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materials or that you have already sent this user a copy.

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free
software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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b) You must cause the files modified to carry prominent notices
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c) You must cause the whole of the work to be licensed at no
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2d) If a facility in the modified Library refers to a function or a
table of data to be supplied by an application program that uses
the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)

These requirements apply to the modified work as a whole. If
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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.
5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

This part of the FAQ is based on a series of questions we asked the FSF to understand how the GPL works and how patents affects the GPL. These questions were answered by the <ulink url="http://www.fsf.org/">FSF lawyers</ulink>, so we view them as the final interpretation on how the GPL and LGPL interact with patents in our opinion. This consultancy was paid for by <ulink url="http://www.fluendo.com/">Fluendo</ulink> in order to obtain clear and quotable answers. These answers were certified by the FSF lawyer team and verified by FSF lawyer and law professor Eben Moglen.
Can someone distribute the combination of

- GStreamer, the LGPL library
- MyPlayer, a GPL playback application
- The binary-only Sorenson decoder

together in one distribution/operating system? If not, what needs to be changed to make this possible?

This would be a problem, because the GStreamer and MyPlayer licenses would forbid it. In order to link GStreamer to MyPlayer, you need to use section 3 of the LGPL to convert GStreamer to GPL. The GPL version of GStreamer forbids linking to the Sorenson decoder. Anyway, the MyPlayer GPL license forbids this.

If the authors of MyPlayer want to permit this, we have an exception for them: the controlled interface exception from the FAQ. The idea of this is that you can't get around the GPL just by including a LGPL bit in the middle.

Note: MyPlayer is a completely fictitious application at the time of writing.

Suppose Apple wants to write a binary-only proprietary plugin for GStreamer to decode Sorenson video, which will be shipped stand-alone, not part of a package like in the question above. Can Apple distribute this binary-only plugin?
Yes, modulo certain reverse engineering requirements in section 6 of the LGPL.

If a program released under the GPL uses a library that is LGPL, and this library can dlopen plug-ins at runtime, what are the requirements for the license of the plug-in?

You may not distribute the plug-in with the GPL application. Distributing the plug-in alone, with the knowledge that it will be used primarily by GPL software is a bit of an edge case. We will not advise you that it would be safe to do so, but we also will not advise you that it would be absolutely forbidden.

Can someone in a country that does not have software patents distribute code covered by US patents under the GPL to people in, for example, Norway?

If he/she visits the US, can he/she be arrested?

Yes, he can. No, there are no criminal penalties for patent infringement in the US.
Can someone from the US distribute software covered by US patents under the GPL to people in Norway? To people in the US?

This might infringe some patents, but the GPL would not forbid it absent some actual restriction, such as a court judgement or agreement. The US government is empowered to refuse importation of patent infringing devices, including software.

There are a lot of GPL- or LGPL-licensed libraries that handle media codecs which have patents. Take mad, an mp3 decoding library, as an example. It is licensed under the GPL. In countries where patents are valid, does this invalidate the GPL license for this project?

The mere existence of a patent which might read on the program does not change anything. However, if a court judgement or other agreement prevents you from distributing libmad under GPL terms, you can not distribute it at all.

The GPL and LGPL say (sections 7 and 11):

If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all.

So let's say there is a court judgement. Does this mean that the GPL license is
invalid for the project everywhere, or only in the countries where it conflicts with the applicable patents?

</question>

</answer>

<para>
The GPL operates on a per-action, not per-program basis. That is, if you are in a country which has software patents, and a court tells you that you cannot distribute (say) libmad in source code form, then you cannot distribute libmad at all. This doesn't affect anyone else.
</para>

</answer>

<qandaentry>
<question id="legal-gpl-and-binary">
<para>
Patented decoding can be implemented in GStreamer either by having a binary-only plugin do the decoding, or by writing a plugin (with any applicable license) that links to a binary-only library. Does this affect the licensing issues involved in regards to GPL/LGPL?
</para>

</question>

<answer>
No.
</answer>

</qandaentry>

<qandaentry>
<question id="legal-gpl-patent-distribution">
<para>
Is it correct that you cannot distribute the GPL mad library to decode mp3's, *even* in the case where you have obtained a valid license for decoding mp3?
</para>

</question>

<answer>
The only GPL-compatible patent licenses are those which are open to all parties possessing copies of GPL software which practices the teachings of the patent.
</answer>
If you take a license which doesn't allow others to distribute original or modified versions of libmad practicing the same patent claims as the version you distribute, then you may not distribute at all.

1.418 gtest 1.3.0
1.418.1 Available under license:
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1.419 gtk-update-icon-cache 3.22.30 :3.el7

1.419.1 Available under license:

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Version 2, June 1991

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[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
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free software--to make sure the software is free for all its users.

This license, the Library General Public License, applies to some
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your libraries, too.

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if you want it, that you can change the software or use pieces of it
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These restrictions translate to certain responsibilities for you if
you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you. You must make sure that they, too, receive or can get the source
code. If you link a program with the library, you must provide
complete object files to the recipients so that they can relink them
with the library, after making changes to the library and recompiling
it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright
the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.
The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what program that uses the Library does.

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You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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   b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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To apply these terms, attach the following notices to the library. It is
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<one line to give the library's name and a brief idea of what it does.>
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Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library "Frob" (a library for tweaking knobs) written by James Random Hacker.
<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.420 gtk2 2.24.31 :1.el7

1.420.1 Available under license :
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Version 2.1, February 1999

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[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
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free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

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you if you distribute copies of the library or if you modify it.
For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain
special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)
"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.
(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.
It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.
However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library,
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entire whole, and thus to each and every part regardless of who wrote
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This option is useful when you wish to copy part of the code of
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4. You may copy and distribute the Library (or a portion or
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it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
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If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
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5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

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Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without
changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated
straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or
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work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
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You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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       (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages
are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated
straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.
You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies
the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

   a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above,

   b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

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freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
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Finally, any free program is threatened constantly by software
patents. We wish to avoid the danger that companies distributing free
software will individually obtain patent licenses, thus in effect
transforming the program into proprietary software. To prevent this,
we have made it clear that any patent must be licensed for everyone's
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Most GNU software, including some libraries, is covered by the ordinary
GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don’t assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or
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it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
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5. A program that contains no derivative of any portion of the
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Section 6 states terms for distribution of such executables.

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Whether this is true is especially significant if the work can be
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threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

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b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

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@c ispell-local-pdict: "ispell-dict"
@c End:

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For the server\util_md5.c component:

/************************************************************************
* NCSA HTTPd Server
* Software Development Group
* National Center for Supercomputing Applications
* University of Illinois at Urbana-Champaign
* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
* 
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* 
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* ----------------------------------------------------------------------------
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# This comes from X11R5 (mit/util/scripts/install.sh).
#
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For the test\zb.c component:

/*                          ZeusBench V1.01
  ===============

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  Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:
  Mike Belshe (mbelshe@netscape.com)
  Michael Campanella (campanella@stevms.enet.dec.com)

*/

For the expat xml parser component:

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<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" lang="en" xml:lang="en"><head></head><!--
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For the server\util_md5.c component:

/************************************************************************
* NCSA HTTPd Server
* Software Development Group
* National Center for Supercomputing Applications
* University of Illinois at Urbana-Champaign
* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
* *
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   Written by Adam Twiss (adam@zeus.co.uk). March 1996

   Thanks to the following people for their input:
   Mike Belshe (mbelshe@netscape.com)
   Michael Campanella (campanella@stevms.enet.dec.com)
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* Software Development Group
* National Center for Supercomputing Applications
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* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
*
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                           ===============

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Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:
Mike Belshe (mbelshe@netscape.com)
Michael Campanella (campanella@stevms.enet.dec.com)

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1.453 iperf3 3.1.7-2

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*------------------------------------------------------------------- */

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1.465 iptables-services 1.4.21 :28.el7
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1.466 iputils 20160308-10

1.467 iputils 20121221 :7.el7
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1.469 irqbalance 1.0.7-11

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-->

<!- $Id: copyright.xsl,v 1.8 2009/07/10 23:47:58 tbox Exp $ -->

<!- Generate ISC copyright comments from Docbook copyright metadata. -->

<xsl:stylesheet xmlns:xsl="http://www.w3.org/1999/XSL/Transform" version="1.0">

<xsl:template name="isc.copyright.format">
  <xsl:param name="text"/>
  <xsl:value-of select="$isc.copyright.leader"/>
  <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
  <xsl:text>&#10;</xsl:text>
  <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
  <xsl:if test="translate($rest, '&#9;&#32;', '')">
    <xsl:call-template name="isc.copyright.format">
      <xsl:with-param name="text" select="$rest"/>
    </xsl:call-template>
  </xsl:if>
</xsl:template>
</xsl:stylesheet>
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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were derived form the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

===========================================================================
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
1.471 iso-codes 3.46 :2.el7

1.471.1 Available under license :

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1.486 iwl6050-firmware 41.28.5.1-69

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1.487 iwl7260-firmware 22.0.7.0-69.el7

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1.488 jackson-core 2.7.5

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1.491 jasper 1.900.1 :29.el7
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1.493 jasper-libs 1.900.1-33

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1.494 java-1.8.0-openjdk 1:1.8.0.201.b09-0.amzn

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 */
package java.security;

/**
 * Abstract class for representing access to a system resource.
 * All permissions have a name (whose interpretation depends on the subclass),
 * as well as abstract functions for defining the semantics of the
 * particular Permission subclass.
 *
 * <p>Most Permission objects also include an "actions" list that tells the actions
 * that are permitted for the object. For example,
 * for a '{@code FilePermission} object, the permission name is
 * the pathname of a file (or directory), and the actions list
 * (such as "read, write") specifies which actions are granted for the
 * specified file (or for files in the specified directory).
 * The actions list is optional for Permission objects, such as
 * '{@code RuntimePermission}',
 * that don't need such a list; you either have the named permission (such
 * as "system.exit") or you don't.
 *
 * <p>An important method that must be implemented by each subclass is
 * the '{@code implies} method to compare Permissions. Basically,
 * "permission p1 implies permission p2" means that
 * if one is granted permission p1, one is naturally granted permission p2.
 * Thus, this is not an equality test, but rather more of a
 * subset test.
 *
 * <p>Permission objects are similar to String objects in that they
 * are immutable once they have been created. Subclasses should not
 * provide methods that can change the state of a permission
 * once it has been created.
 *
 * @see Permissions
 * @see PermissionCollection
 *
 * @author Marianne Mueller
 * @author Roland Schemers
 */

public abstract class Permission implements Guard, java.io.Serializable {


private static final long serialVersionUID = -5636570222231596674L;

private String name;

/**
 * Constructs a permission with the specified name.
 * @param name name of the Permission object being created.
 */
public Permission(String name) {
    this.name = name;
}

/**
 * Implements the guard interface for a permission. The
 * { @code SecurityManager.checkPermission} method is called,
 * passing this permission object as the permission to check.
 * Returns silently if access is granted. Otherwise, throws
 * a SecurityException.
 * @param object the object being guarded (currently ignored).
 * @throws SecurityException if a security manager exists and its
 * if a security manager exists and its
 * { @code checkPermission} method doesn't allow access.
 * @see Guard
 * @see GuardedObject
 * @see SecurityManager#checkPermission
 */
public void checkGuard(Object object) throws SecurityException {
    SecurityManager sm = System.getSecurityManager();
    if (sm != null) sm.checkPermission(this);
}

/**
 * Checks if the specified permission's actions are "implied by"
 * this object's actions.
 * @param p
 * This must be implemented by subclasses of Permission, as they are the
 * only ones that can impose semantics on a Permission object.
 * @param The { @code implies} method is used by the AccessController to determine
 * whether or not a requested permission is implied by another permission that
* is known to be valid in the current execution context.
* @param permission the permission to check against.
* @return true if the specified permission is implied by this object,
* false if not.
*/

public abstract boolean implies(Permission permission);

/**
 * Checks two Permission objects for equality.
 * @param obj the object we are testing for equality with this object.
 * @return true if both Permission objects are equivalent.
 */

public abstract boolean equals(Object obj);

/**
 * Returns the hash code value for this Permission object.
 * @return a hash code value for this object.
 */

public abstract int hashCode();
* For example, in the case of a `java.io.FilePermission`,
* the name will be a pathname.
*
* @return the name of this Permission.
*
*/

public final String getName() {
    return name;
}

/**
 * Returns the actions as a String. This is abstract
 * so subclasses can defer creating a String representation until
 * one is needed. Subclasses should always return actions in what they
 * consider to be their
 * canonical form. For example, two FilePermission objects created via
 * the following:
 * *
 * <pre>
 * perm1 = new FilePermission(p1,"read,write");
 * perm2 = new FilePermission(p2,"write,read");
 * </pre>
 * *
 * both return
 * "read,write" when the `getActions` method is invoked.
 * *
 * @return the actions of this Permission.
 * *
 */

public abstract String getActions();

/**
 * Returns an empty PermissionCollection for a given Permission object, or null if
 * one is not defined. Subclasses of class Permission should
 * override this if they need to store their permissions in a particular
 * PermissionCollection object in order to provide the correct semantics
 * when the `PermissionCollection.implies` method is called.
 * If null is returned,
 * then the caller of this method is free to store permissions of this
 * type in any PermissionCollection they choose (one that uses a Hashtable,
 * one that uses a Vector, etc).
 * *
 * @return a new PermissionCollection object for this type of Permission, or
 * null if one is not defined.
 * */
public PermissionCollection newPermissionCollection() {
    return null;
}

/**
 * Returns a string describing this Permission. The convention is to
 * specify the class name, the permission name, and the actions in
 * the following format: ('className' 'name' 'actions'), or
 * ('className' 'name') if actions list is null or empty.
 *
 * @return information about this Permission.
 */
public String toString() {
    String actions = getActions();
    if ((actions == null) || (actions.length() == 0)) { // OPTIONAL
        return "(" + getClass().getName() + " " + name + ")";
    } else {
        return "(" + getClass().getName() + " " + name + 
                " " + actions + 
                ")";
    }
}

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 * Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
 * or visit www.oracle.com if you need additional information or have any
 * questions.
 */

package java.security.acl;
/**
 * This interface represents a permission, such as that used to grant
 * a particular type of access to a resource.
 *
 * @author Satish Dharmaraj
 */
public interface Permission {

    /**
     * Returns true if the object passed matches the permission represented
     * in this interface.
     *
     * @param another the Permission object to compare with.
     *
     * @return true if the Permission objects are equal, false otherwise
     */
    public boolean equals(Object another);

    /**
     * Prints a string representation of this permission.
     *
     * @return the string representation of the permission.
     */
    public String toString();
}

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#
# Version
#
# Uses Fedora Core 6 fonts and file paths.
version=1
#
# Component Font Mappings

dialog.plain.latin-1=DejaVu LGC Sans
dialog.plain.japanese-x0208=Sazanami Gothic
dialog.plain.korean=Baekmuk Gulim
dialog.plain.chinese-big5=AR PL ShanHeiSun

dialog.plain.chinese-gb18030=AR PL ShanHeiSun
dialoginput.plain.japanese-x0208=Sazanami Gothic
dialoginput.plain.korean=Baekmuk Gulim
dialoginput.plain.chinese-big5=AR PL ShanHeiSun Uni
dialoginput.plain.chinese-gb18030=AR PL ShanHeiSun Uni

dialoginput.bold.latin-1=DejaVu LGC Sans Mono Bold
dialoginput.bold.japanese-x0208=Sazanami Gothic
dialoginput.bold.korean=Baekmuk Gulim
dialoginput.bold.chinese-big5=AR PL ShanHeiSun Uni
dialoginput.bold.chinese-gb18030=AR PL ShanHeiSun Uni

dialoginput.italic.latin-1=DejaVu LGC Sans Mono Oblique
dialoginput.italic.japanese-x0208=Sazanami Gothic
dialoginput.italic.korean=Baekmuk Gulim
dialoginput.italic.chinese-big5=AR PL ShanHeiSun Uni
dialoginput.italic.chinese-gb18030=AR PL ShanHeiSun Uni

dialoginput.bolditalic.latin-1=DejaVu LGC Sans Mono Bold Oblique
dialoginput.bolditalic.japanese-x0208=Sazanami Gothic
dialoginput.bolditalic.korean=Baekmuk Gulim
dialoginput.bolditalic.chinese-big5=AR PL ShanHeiSun Uni
dialoginput.bolditalic.chinese-gb18030=AR PL ShanHeiSun Uni

# Search Sequences

sequence.allfonts=latin-1
sequence.allfonts.Big5=chinese-big5,latin-1
sequence.allfonts.x-euc-jp-bsd=japanese-x0208,latin-1
sequence.allfonts.EUC-KR=korean,latin-1
sequence.allfonts.GB18030=chinese-gb18030,latin-1
sequence.fallback=chinese-big5,chinese-gb18030,japanese-x0208,korean

# Font File Names

filename.DejaVu_LGC_Sans=/usr/share/fonts/dejavu-lgc/DejaVuLGCSans.ttf
filename.DejaVu_LGC_Sans_Bold=/usr/share/fonts/dejavu-lgc/DejaVuLGCSans-Bold.ttf
filename.DejaVu_LGC_Sans_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSans-Oblique.ttf
filename.DejaVu_LGC_Sans_Oblique=DejaVuLGCSans-Oblique.ttf
filename.DejaVu_LGC_Sans_Bold_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSans-BoldOblique.ttf
filename.DejaVu_LGC_Sans_Bold_Oblique=DejaVuLGCSans-BoldOblique.ttf
filename.DejaVu_LGC_Sans_Mono=/usr/share/fonts/dejavu-lgc/DejaVuLGCSansMono.ttf
filename.DejaVu_LGC_Sans_Mono_Bold=/usr/share/fonts/dejavu-lgc/DejaVuLGCSansMono-Bold.ttf
filename.DejaVu_LGC_Sans_Mono_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSansMono-Oblique.ttf
filename.DejaVu_LGC_Sans_Mono_Bold_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSansMono-BoldOblique.ttf
filename.DejaVu_LGC_Serif=/usr/share/fonts/dejavu-lgc/DejaVuLGCSerif.ttf
filename.DejaVu_LGC_Serif_Bold=/usr/share/fonts/dejavu-lgc/DejaVuLGCSerif-Bold.ttf
filename.DejaVu_LGC_Serif_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSerif-Oblique.ttf
package build.tools.cldrconverter;

import java.util.Calendar;
import java.util.GregorianCalendar;
import java.util.Locale;
import java.util.TimeZone;

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    return String.format(year > 2012 ? ORACLE_AFTER2012 : ORACLE2012, year);
}

static String getUnicodeCopyright() {
    return UNICODE;
}

static String getOpenJDKCopyright() {
    int year = getYear();
    return String.format(year > 2012 ? OPENJDK_AFTER2012 : OPENJDK2012, year);
}

private static int getYear() {
    return new GregorianCalendar(TimeZone.getTimeZone("America/Los_Angeles"),
                                  Locale.US).get(Calendar.YEAR);
}

// no instantiation
private CopyrightHeaders() {
    }
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import org.somewhere.ws.EchoResponse;

public class CopyingResponse extends EchoResponse {

    public CopyingResponse() {} 

    public CopyingResponse(EchoRequest request) {
        content = request.getContent();
    }
}

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 * questions.
 * */
package java.security;

/**
 * Abstract class for representing access to a system resource.
 * All permissions have a name (whose interpretation depends on the subclass),
 * as well as abstract functions for defining the semantics of the
 * particular Permission subclass.
 *
 * Most Permission objects also include an "actions" list that tells the actions
 * that are permitted for the object. For example,
 * for a [code FilePermission] object, the permission name is
 * the pathname of a file (or directory), and the actions list
 * (such as "read, write") specifies which actions are granted for the
 * specified file (or for files in the specified directory).
 * The actions list is optional for Permission objects, such as
 * [code RuntimePermission],
 * that don't need such a list; you either have the named permission (such
 * as "system.exit") or you don't.
 *
 * An important method that must be implemented by each subclass is
 * the [code implies] method to compare Permissions. Basically,
 * "permission p1 implies permission p2" means that
 * if one is granted permission p1, one is naturally granted permission p2.
 * Thus, this is not an equality test, but rather more of a
 * subset test.
 *
 * Permission objects are similar to String objects in that they
 * are immutable once they have been created. Subclasses should not
 * provide methods that can change the state of a permission
 * once it has been created.
 *
 * @see Permissions
 * @see PermissionCollection
 *
 * @author Marianne Mueller
 * @author Roland Schemers
 */

public abstract class Permission implements Guard, java.io.Serializable {

    private static final long serialVersionUID = -5636570222231596674L;

    private String name;

    /**
     * Constructs a permission with the specified name.
     */
public Permission(String name) {
    this.name = name;
}

/**
 * Implements the guard interface for a permission. The
 * [code SecurityManager.checkPermission] method is called,
 * passing this permission object as the permission to check.
 * Returns silently if access is granted. Otherwise, throws
 * a SecurityException.
 * @param object the object being guarded (currently ignored).
 * @throws SecurityException
 *        if a security manager exists and its
 *        [code checkPermission] method doesn't allow access.
 */
public void checkGuard(Object object) throws SecurityException {
    SecurityManager sm = System.getSecurityManager();
    if (sm != null) sm.checkPermission(this);
}

/**
 * Checks if the specified permission's actions are "implied by"
 * this object's actions.
 * <p>
 * This must be implemented by subclasses of Permission, as they are the
 * only ones that can impose semantics on a Permission object.
 * <p>
 * The [code implies] method is used by the AccessController to determine
 * whether or not a requested permission is implied by another permission that
 * is known to be valid in the current execution context.
 * @param permission the permission to check against.
 * @return true if the specified permission is implied by this object,
 * false if not.
 */
public abstract boolean implies(Permission permission);

/**
 * Checks two Permission objects for equality.
 * <p>
 * Do not use the {@code equals} method for making access control
 * decisions; use the {@code implies} method.
 * 
 * @param obj the object we are testing for equality with this object.
 * 
 * @return true if both Permission objects are equivalent.
 */

public abstract boolean equals(Object obj);

/**
 * Returns the hash code value for this Permission object.
 * <p>
 * The required behavior for Permission Objects is
 * the following:
 * <ul>
 * <li>Whenever it is invoked on the same Permission object more than
 * once during an execution of a Java application, the
 *   {@code hashcode} method
 *   must consistently return the same integer. This integer need not
 *   remain consistent from one execution of an application to another
 *   execution of the same application.
 * <li>If two Permission objects are equal according to the
 *   method, then calling the {@code hashcode} method on each of the
 *   two Permission objects must produce the same integer result.
 * </ul>
 * @return a hash code value for this object.
 */

public abstract int hashCode();

/**
 * Returns the name of this Permission.
 * For example, in the case of a {@code java.io.FilePermission},
 * the name will be a pathname.
 * 
 * @return the name of this Permission.
 */
public final String getName() {
    return name;
}

/**
 * Returns the actions as a String. This is abstract
 * so subclasses can defer creating a String representation until
 * one is needed. Subclasses should always return actions in what they
 * consider to be their
 * canonical form. For example, two FilePermission objects created via
 * the following:
 * *
 * <pre>
 * perm1 = new FilePermission(p1,"read,write");
 * perm2 = new FilePermission(p2,"write,read");
 * </pre>
 * *
 * both return
 * "read,write" when the { @code getActions } method is invoked.
 * *
 * @return the actions of this Permission.
 * *
 */

public abstract String getActions();

/**
 * Returns an empty PermissionCollection for a given Permission object, or null if
 * one is not defined. Subclasses of class Permission should
 * override this if they need to store their permissions in a particular
 * PermissionCollection object in order to provide the correct semantics
 * when the { @code PermissionCollection.implies } method is called.
 * If null is returned,
 * then the caller of this method is free to store permissions of this
 * type in any PermissionCollection they choose (one that uses a Hashtable,
 * one that uses a Vector, etc).
 * *
 * @return a new PermissionCollection object for this type of Permission, or
 * null if one is not defined.
 */

public PermissionCollection newPermissionCollection() {
    return null;
}

/**
 * Returns a string describing this Permission. The convention is to
 * specify the class name, the permission name, and the actions in

public String toString() {
    String actions = getActions();
    if ((actions == null) || (actions.length() == 0)) { // OPTIONAL
        return "(" + getClass().getName() + " " + name + ")";
    } else {
        return "(" + getClass().getName() + " " + name + " " + actions + ")";
    }
}

package java.security.acl;

/***
* This interface represents a permission, such as that used to grant
* a particular type of access to a resource.
*
* @author Satish Dharmaraj
*/
public interface Permission {

    /**
     * Returns true if the object passed matches the permission represented
     * in this interface.
     *
     * @param another the Permission object to compare with.
     *
     * @return true if the Permission objects are equal, false otherwise
     */
    public boolean equals(Object another);

    /**
     * Prints a string representation of this permission.
     *
     * @return the string representation of the permission.
     */
    public String toString();
}
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#
# Version

# Uses Fedora Core 6 fonts and file paths.
version=1

# Component Font Mappings

dialog.plain.latin-1=DejaVu LGC Sans
dialog.plain.japanese-x0208=Sazanami Gothic
dialog.plain.korean=Baekmuk Gulim
dialog.plain.chinese-big5=AR PL ShanHeiSun Uni
dialog.plain.chinese-gb18030=AR PL ShanHeiSun Uni

dialog.bold.latin-1=DejaVu LGC Sans Bold
dialog.bold.japanese-x0208=Sazanami Gothic
dialog.bold.korean=Baekmuk Gulim
dialog.bold.chinese-big5=AR PL ShanHeiSun Uni
dialog.bold.chinese-gb18030=AR PL ShanHeiSun Uni
dialog.italic.latin-1=DejaVu LGC Sans Oblique
dialog.italic.japanese-x0208=Sazanami Gothic
dialog.italic.korean=Baekmuk Gulim
dialog.italic.chinese-big5=AR PL ShanHeiSun Uni
dialog.italic.chinese-gb18030=AR PL ShanHeiSun Uni

dialog.bolditalic.latin-1=DejaVu LGC Sans Bold Oblique
dialog.bolditalic.japanese-x0208=Sazanami Gothic
dialog.bolditalic.korean=Baekmuk Gulim
dialog.bolditalic.chinese-big5=AR PL ShanHeiSun Uni
dialog.bolditalic.chinese-gb18030=AR PL ShanHeiSun Uni

sansserif.plain.latin-1=DejaVu LGC Sans
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sansserif.plain.korean=Baekmuk Gulim
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serif.plain.latin-1=DejaVu LGC Serif
serif.plain.japanese-x0208=Sazanami Mincho
serif.plain.korean=Baekmuk Batang
serif.plain.chinese-big5=AR PL ZenKai Uni
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serif.bold.chinese-gb18030=AR PL ZenKai Uni
Open Source Used In Application Centric Infrastructure Service Engine (ACI-SE) 1.1

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serif.bold.chinese-gb18030=AR PL ZenKai Uni

serif.italic.latin=DejaVu LGC Serif Oblique
serif.italic.japanese-x0208=Sazanami Mincho
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monospaced.plain.latin=DejaVu LGC Sans Mono
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dialoginput.bolditalic.korean=Baekmuk Gulim
dialoginput.bolditalic.chinese-big5=AR PL ShanHeiSun Uni
dialoginput.bolditalic.chinese-gb18030=AR PL ShanHeiSun Uni

# Search Sequences

sequence.allfonts=latin-1
sequence.allfonts.Big5=chinese-big5,latin-1
sequence.allfonts.x-euc-jp-bsd=japanese-x0208,latin-1
sequence.allfonts.EUC-KR=korean,latin-1
sequence.allfonts.GB18030=chinese-gb18030,latin-1
sequence.fallback=chinese-big5,chinese-gb18030,japanese-x0208,korean

# Font File Names

filename.DejaVu_LGC_Sans=/usr/share/fonts/dejavu-lgc/DejaVuLGCSans.ttf
filename.DejaVu_LGC_Sans_Bold=/usr/share/fonts/dejavu-lgc/DejaVuLGCSans-Bold.ttf
filename.DejaVu_LGC_Sans_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSans-Oblique.ttf
filename.DejaVu_LGC_Sans_Bold_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSans-BoldOblique.ttf
filename.DejaVu_LGC_Sans_Mono=/usr/share/fonts/dejavu-lgc/DejaVuLGCSansMono.ttf
filename.DejaVu_LGC_Sans_Mono_Bold=/usr/share/fonts/dejavu-lgc/DejaVuLGCSansMono-Bold.ttf
filename.DejaVu_LGC_Sans_Mono_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSansMono-Oblique.ttf
filename.DejaVu_LGC_Sans_Mono_Bold_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSansMono-BoldOblique.ttf
filename.DejaVu_LGC_Serif=/usr/share/fonts/dejavu-lgc/DejaVuLGCSerif.ttf
filename.DejaVu_LGC_Serif_Bold=/usr/share/fonts/dejavu-lgc/DejaVuLGCSerif-Bold.ttf
filename.DejaVu_LGC_Serif_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSerif-Oblique.ttf
filename.DejaVu_LGC_Serif_Bold_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSerif-BoldOblique.ttf
filename.Sazanami_Gothic=/usr/share/fonts/japanese/TrueType/sazanami-gothic.ttf
filename.Sazanami_Mincho=/usr/share/fonts/japanese/TrueType/sazanami-mincho.ttf
filename.AR_PL_ShanHeiSun_Uni=/usr/share/fonts/chinese/TrueType/uming.ttf
filename.AR_PL_ZenKai_Uni=/usr/share/fonts/chinese/TrueType/ukai.ttf
filename.Baekmuk_Gulim=/usr/share/fonts/korean/TrueType/gulim.ttf
package build.tools.cldrconverter;

import java.util.Calendar;
import java.util.GregorianCalendar;
import java.util.Locale;
import java.util.TimeZone;

class CopyrightHeaders {
    private static final String ORACLE2012 =
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" * Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA or visit www.oracle.com if you need additional information or have any questions.
" */

static String getOracleCopyright() {
    int year = getYear();
    return String.format(year > 2012 ? ORACLE_AFTER2012 : ORACLE2012, year);
}

static String getUnicodeCopyright() {
    return UNICODE;
static String getOpenJDKCopyright() {
    int year = getYear();
    return String.format(year > 2012 ? OPENJDK_AFTER2012 : OPENJDK2012, year);
}

private static int getYear() {
    return new GregorianCalendar(TimeZone.getTimeZone("America/Los_Angeles"),
                                 Locale.US).get(Calendar.YEAR);
}

// no instantiation
private CopyrightHeaders() {
}

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 *
 * Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
 * or visit www.oracle.com if you need additional information or have any
 * questions.
 */

/**
 *
*/
import java.rmi.Remote;
public interface Legal extends Remote {};
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 *
 * Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
 * or visit www.oracle.com if you need additional information or have any
 */
import org.somewhere.ws.EchoRequest;
import org.somewhere.ws.EchoResponse;

public class CopyingResponse extends EchoResponse {

    public CopyingResponse() {
    }
    public CopyingResponse(EchoRequest request) {
        content = request.getContent();
    }
}

1.497 java-1.8.0-openjdk-devel 1.8.0.111-1
:2.6.9.0.el7_3

1.497.1 Available under license:

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```c
printf("%s", png_get_copyright(NULL));
```

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 * questions.
 */

package java.security;

/**
 * Abstract class for representing access to a system resource.
* All permissions have a name (whose interpretation depends on the subclass),
* as well as abstract functions for defining the semantics of the
* particular Permission subclass.
* 
* <p>Most Permission objects also include an "actions" list that tells the actions
* that are permitted for the object. For example,
* for a { @code java.io.FilePermission} object, the permission name is
* the pathname of a file (or directory), and the actions list
* (such as "read, write") specifies which actions are granted for the
* specified file (or for files in the specified directory).
* The actions list is optional for Permission objects, such as
* { @code java.lang.RuntimePermission},
* that don't need such a list; you either have the named permission (such
* as "system.exit") or you don't.
* 
* <p>An important method that must be implemented by each subclass is
* the { @code implies} method to compare Permissions. Basically,
* "permission p1 implies permission p2" means that
* if one is granted permission p1, one is naturally granted permission p2.
* Thus, this is not an equality test, but rather more of a
* subset test.
* 
* <P> Permission objects are similar to String objects in that they
* are immutable once they have been created. Subclasses should not
* provide methods that can change the state of a permission
* once it has been created.
* 
* @see Permissions
* @see PermissionCollection
* 
* @author Marianne Mueller
* @author Roland Schemers
*/

public abstract class Permission implements Guard, java.io.Serializable {

    private static final long serialVersionUID = -5636570222231596674L;

    private String name;

    /**
     * Constructs a permission with the specified name.
     *
     * @param name name of the Permission object being created.
     */
public Permission(String name) {
    this.name = name;
}

/**
 * Implements the guard interface for a permission. The
 * {@code SecurityManager.checkPermission} method is called,
 * passing this permission object as the permission to check.
 * Returns silently if access is granted. Otherwise, throws
 * a SecurityException.
 *
 * @param object the object being guarded (currently ignored).
 *
 * @throws SecurityException
 *        if a security manager exists and its
 *        {@code checkPermission} method doesn't allow access.
 *
 * @see Guard
 * @see GuardedObject
 * @see SecurityManager#checkPermission
 *
 */
public void checkGuard(Object object) throws SecurityException {
    SecurityManager sm = System.getSecurityManager();
    if (sm != null) sm.checkPermission(this);
}

/**
 * Checks if the specified permission's actions are "implied by"
 * this object's actions.
 * &lt;p&gt;
 * This must be implemented by subclasses of Permission, as they are the
 * only ones that can impose semantics on a Permission object.
 * &lt;p&gt;The {@code implies} method is used by the AccessController to determine
 * whether or not a requested permission is implied by another permission that
 * is known to be valid in the current execution context.
 *
 * @param permission the permission to check against.
 *
 * @return true if the specified permission is implied by this object,
 * false if not.
 */
public abstract boolean implies(Permission permission);

/**
 * Checks two Permission objects for equality.
 */
* Do not use the \{code equals\} method for making access control decisions; use the \{code implies\} method.
* @param obj the object we are testing for equality with this object.
* @return true if both Permission objects are equivalent.
*/

public abstract boolean equals(Object obj);

/**
 * Returns the hash code value for this Permission object.
 * <br>
 * The required \{code hashCode\} behavior for Permission Objects is the following:
 * <ul>
 *  <li>Whenever it is invoked on the same Permission object more than once during an execution of a Java application, the \{code hashCode\} method must consistently return the same integer. This integer need not remain consistent from one execution of an application to another execution of the same application.
 *  <li>If two Permission objects are equal according to the \{code equals\} method, then calling the \{code hashCode\} method on each of the two Permission objects must produce the same integer result.
 * </ul>
 * @return a hash code value for this object.
*/

public abstract int hashCode();

/**
 * Returns the name of this Permission.
 * For example, in the case of a \{code java.io.FilePermission\}, the name will be a pathname.
 * @return the name of this Permission.
 */

public final String getName() {
    return name;
}
* Returns the actions as a String. This is abstract
* so subclasses can defer creating a String representation until
* one is needed. Subclasses should always return actions in what they
* consider to be their
* canonical form. For example, two FilePermission objects created via
* the following:

```java
<pre>
perm1 = new FilePermission(p1,"read,write");
perm2 = new FilePermission(p2,"write,read");
</pre>

* both return
* "read,write" when the {@code getActions} method is invoked.
*
* @return the actions of this Permission.
*
*/

public abstract String getActions();

/**
 * Returns an empty PermissionCollection for a given Permission object, or null if
 * one is not defined. Subclasses of class Permission should
 * override this if they need to store their permissions in a particular
 * PermissionCollection object in order to provide the correct semantics
 * when the { @code PermissionCollection.implies} method is called.
 * If null is returned,
 * then the caller of this method is free to store permissions of this
 * type in any PermissionCollection they choose (one that uses a Hashtable,
 * one that uses a Vector, etc).
 *
* @return a new PermissionCollection object for this type of Permission, or
* null if one is not defined.
*/

public PermissionCollection newPermissionCollection() { return null; }

/**
 * Returns a string describing this Permission. The convention is to
 * specify the class name, the permission name, and the actions in
 * the following format: '("ClassName" "name" "actions"'), or
 * '("ClassName" "name")' if actions list is null or empty.
 *
* @return information about this Permission.
*/
public String toString() {
    String actions = getActions();
    if ((actions == null) || (actions.length() == 0)) { // OPTIONAL
        return "(" + getClass().getName() + " " + name + ")";
    } else {
        return "(" + getClass().getName() + " " + name + " " + actions + ")";
    }
}
}

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Version 2, June 1991

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<!--
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package java.security.acl;

/**
 * This interface represents a permission, such as that used to grant
 * a particular type of access to a resource.
 *
 * @author Satish Dharmaraj
 */
public interface Permission {

/**
 * Returns true if the object passed matches the permission represented
 * in this interface.
 *
 * @param another the Permission object to compare with.
 *
 * @return true if the Permission objects are equal, false otherwise
 */
public boolean equals(Object another);
/**
 * Prints a string representation of this permission.
 *
 * @return the string representation of the permission.
 */
  
  public String toString();

} }
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# questions.
#
# Version

# Uses Fedora Core 6 fonts and file paths.
version=1

# Component Font Mappings

dialog.plain.latin-1=DejaVu LGC Sans
dialog.plain.japanese-x0208=Sazanami Gothic
dialog.plain.korean=Baekmuk Gulim
dialog.plain.chinese-big5=AR PL ShanHeiSun Uni
dialog.plain.chinese-gb18030=AR PL ShanHeiSun Uni

dialog.bold.latin-1=DejaVu LGC Sans Bold
dialog.bold.japanese-x0208=Sazanami Gothic
dialog.bold.korean=Baekmuk Gulim
dialog.bold.chinese-big5=AR PL ShanHeiSun Uni
dialog.bold.chinese-gb18030=AR PL ShanHeiSun Uni

dialog.italic.latin-1=DejaVu LGC Sans Oblique
dialog.italic.japanese-x0208=Sazanami Gothic
dialog.italic.korean=Baekmuk Gulim
dialog.italic.chinese-big5=AR PL ShanHeiSun Uni
dialog.italic.chinese-gb18030=AR PL ShanHeiSun Uni

dialog.bolditalic.latin-1=DejaVu LGC Sans Bold Oblique
dialog.bolditalic.japanese-x0208=Sazanami Gothic
dialog.bolditalic.korean=Baekmuk Gulim
dialog.bolditalic.chinese-big5=AR PL ShanHeiSun Uni
dialog.bolditalic.chinese-gb18030=AR PL ShanHeiSun Uni
Open Source Used In Application Centric Infrastructure Service Engine (ACI-SE) 1.1

12885
dialoginput.bolditalic.korean=Baekmuk Gulim
dialoginput.bolditalic.chinese-big5=AR PL ShanHeiSun Uni
dialoginput.bolditalic.chinese-gb18030=AR PL ShanHeiSun Uni

# Search Sequences

sequence.allfonts=latin-1
sequence.allfonts.Big5=chinese-big5,latin-1
sequence.allfonts.x-euc-jp-bsd=japanese-x0208,latin-1
sequence.allfonts.EUC-KR=korean,latin-1
sequence.allfonts.GB18030=chinese-gb18030,latin-1
sequence.fallback=chinese-big5,chinese-gb18030,japanese-x0208,korean

# Font File Names

filename.DejaVu_LGC_Sans=/usr/share/fonts/dejavu-lgc/DejaVuLGCSans.ttf
filename.DejaVu_LGC_Sans_Bold=/usr/share/fonts/dejavu-lgc/DejaVuLGCSans-Bold.ttf
filename.DejaVu_LGC_Sans_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSans-Oblique.ttf
filename.DejaVu_LGC_Sans_Bold_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSans-BoldOblique.ttf
filename.DejaVu_LGC_Sans_Mono=/usr/share/fonts/dejavu-lgc/DejaVuLGCSansMono.ttf
filename.DejaVu_LGC_Sans_Mono_Bold=/usr/share/fonts/dejavu-lgc/DejaVuLGCSansMono-Bold.ttf
filename.DejaVu_LGC_Sans_Mono_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSansMono-Oblique.ttf
filename.DejaVu_LGC_Sans_Mono_Bold_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSansMono-BoldOblique.ttf
filename.DejaVu_LGC_Serif=/usr/share/fonts/dejavu-lgc/DejaVuLGCSerif.ttf
filename.DejaVu_LGC_Serif_Bold=/usr/share/fonts/dejavu-lgc/DejaVuLGCSerif-Bold.ttf
filename.DejaVu_LGC_Serif_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSerif-Oblique.ttf
filename.DejaVu_LGC_Serif_Bold_Oblique=/usr/share/fonts/dejavu-lgc/DejaVuLGCSerif-BoldOblique.ttf
filename.Sazanami_Gothic=/usr/share/fonts/japanese/TrueType/sazanami-gothic.ttf
filename.Sazanami_Mincho=/usr/share/fonts/japanese/TrueType/sazanami-mincho.ttf
filename.AR_PL_ShanHeiSun_Uni=/usr/share/fonts/chinese/TrueType/uming.ttf
filename.AR_PL_ZenKai_Uni=/usr/share/fonts/chinese/TrueType/ukai.ttf
filename.Baekmuk_Gulim=/usr/share/fonts/korean/TrueType/gulim.ttf
filename.Baekmuk_Batang=/usr/share/fonts/korean/TrueType/batang.ttf

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import java.util.Calendar;
import java.util.GregorianCalendar;
import java.util.Locale;
import java.util.TimeZone;

class CopyrightHeaders {
    private static final String ORACLE2012 =
            "/*
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             * */
            ;

    private static final String ORACLE_AFTER2012 =
            "/*
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             * */
            ;

    private static final String UNICODE =
            "/*
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             */
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    int year = getYear();
    return String.format(year > 2012 ? ORACLE_AFTER2012 : ORACLE2012, year);
}

static String getUnicodeCopyright() {
    return UNICODE;
}

static String getOpenJDKCopyright() {
    int year = getYear();
    return String.format(year > 2012 ? OPENJDK_AFTER2012 : OPENJDK2012, year);
}

private static int getYear() {
    return new GregorianCalendar(TimeZone.getTimeZone("America/Los_Angeles"),
        Locale.US).get(Calendar.YEAR);
}
private CopyrightHeaders() {
}
}
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import org.somewhere.ws.EchoRequest;
import org.somewhere.ws.EchoResponse;

public class CopyingResponse extends EchoResponse {

    public CopyingResponse() {} 

    public CopyingResponse(EchoRequest request) {
        content = request.getContent();
    }
}

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1.502 jbigkit 2.0 :11.el7

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 *
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 *
 * $Id: jbig.c 1297 2008-08-27 19:18:37Z mgk25 $
 *
 * This module implements a portable standard C encoder and decoder
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# PC Screen (console) Fonts - psf1 header
#
# 0 leshort 0x0436 psf screen font data
>2 byte 0 256 characters, no index
>2 byte 1 512 characters, no index
>2byte2256 characters, Unicode index
>2byte3512 characters, Unicode index
>2byte4256 characters, Unicode level 2 index
>2byte5512 characters, Unicode level 2 index
>3byte8x%d
#
# PC Screen (console) Fonts - psf2 header
#
# 0 lelong 0x864ab572 psf2 screen font data
>12 lelong&1 1 with Unicode index
>16 lelongx%b, %d glyphs
>28 lelongx%b, %dx
>24 lelongx%b%d
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rJ
<<?3?0000p<ffff<~0`0<<<<fffIIIIIIIIII|0`8III8vv0000000000<~<fB~00`8III8x~|0`|<|I8`|000000000~|x00`0~```00`|8If
1.519 kbd-misc 1.15 :11.el6

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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 *
 * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
 * http://www.hypermall.com/
 * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
 * interrupts us (except possibly for removal/insertion of the cable?)
 * 10/4/97 - began heavy inline documentation of the code. Corrected typos
 * and spelling mistakes.
 * 10/5/97 - added code to handle PHY interrupts, disable PHY on
 * loss of link, and correctly re-enable PHY when link is
 * re-established. (put back CFG_PHYIE)
 *
 * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
 *
 * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
 *
 * Linux driver for the IDT77201 NICStar PCI ATM controller.
 * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
 * see init_nicstar() for PHY initialization to change this. This driver
 * expects the Linux ATM stack to support scatter-gather lists
 * (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
 *
Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
* combined, allow nicstar_free_rx_skb to be called to
* recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.

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*
* M. Welsh, 6 July 1996
*
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            || strcmp(license, "GPL v2") == 0
            || strcmp(license, "GPL and additional rights") == 0
            || strcmp(license, "Dual BSD/GPL") == 0
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}
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```
.. note::

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- Michael Hunold <m.hunold@gmx.de>

- for the initial saa7146 driver and its recent overhaul

- Christian Theiss
```
- for his work on the initial Linux DVB driver

- Marcus Metzler <mocm@metzlerbros.de> and Ralph Metzler <rjkm@metzlerbros.de>

- for their continuing work on the DVB driver

- Michael Holzt <kju@debian.org>

- for his contributions to the dvb-net driver

- Diego Picciani <d.picciani@novacomp.it>

- for CyberLogin for Linux which allows logging onto EON
  (in case you are wondering where CyberLogin is, EON changed its login procedure and CyberLogin is no longer used.)

- Martin Schaller <martin@smurf.franken.de>

- for patching the cable card decoder driver

- Klaus Schmidinger <Klaus.Schmidinger@cadsoft.de>

- for various fixes regarding tuning, OSD and CI stuff and his work on VDR

- Steve Brown <sbrown@cortland.com>

- for his AFC kernel thread

- Christoph Martin <martin@uni-mainz.de>

- for his LIRC infrared handler

- Andreas Oberritter <obi@linuxtv.org>,
  Dennis Noermann <dennis.noermann@noernet.de>,
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  Florian Schirmer <jolt@tuxbox.org>,
  Ronny Strutz <3des@elitedvb.de>,
  Wolfram Joost <dbox2@frokaschwei.de>
  and all the other dbox2 people

- for many bugfixes in the generic DVB Core, frontend drivers and their work on the dbox2 port of the DVB driver

- Oliver Endriss <o.endriss@gmx.de>

- for many bugfixes
- Andrew de Quincey <adq_dvb@lidskialf.net>

- for the tda1004x frontend driver, and various bugfixes

- Peter Schildmann <peter.schildmann@web.de>

- for the driver for the Technisat SkyStar2 PCI DVB card

- Vadim Catana <skystar@moldova.cc>,
  Roberto Ragusa <r.ragusa@libero.it> and
  Augusto Cardoso <augusto@carhil.net>

- for all the work for the FlexCopII chipset by B2C2,Inc.

- Davor Emard <emard@softhome.net>

- for his work on the budget drivers, the demux code,
  the module unloading problems, ...

- Hans-Frieder Vogt <hfvogt@arcor.de>

- for his work on calculating and checking the crc's for the
  TechnoTrend/Hauppauge DEC driver firmware

- Michael Dreher <michael@5dot1.de> and
  Andreas 'randy' Weinberger

- for the support of the Fujitsu-Siemens Activy budget DVB-S

- Kenneth Aafly <ke-aa@frisurf.no>

- for adding support for Typhoon DVB-S budget card

- Ernst Peinlich <e.peinlich@inode.at>

- for tuning/DiSEqC support for the DEC 3000-s

- Peter Beutner <p.beutner@gmx.net>

- for the IR code for the ttusb-dec driver

- Wilson Michaels <wilsonmichaels@earthlink.net>

- for the lgdt330x frontend driver, and various bugfixes

- Michael Krufky <mkrufky@linuxtv.org>
- for maintaining v4l/dvb inter-tree dependencies

- Taylor Jacob <rtjacob@earthlink.net>

- for the nxt2002 frontend driver

- Jean-Francois Thibert <jeanfrancois@sagetv.com>

- for the nxt2004 frontend driver

- Kirk Lapray <kirk.lapray@gmail.com>

- for the or51211 and or51132 frontend drivers, and
  for merging the nxt2002 and nxt2004 modules into a
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/* nicstar.c v0.22  Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 *
 * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
 * http://www.hypermall.com/
 * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY interrupts us (except possibly for removal/insertion of the cable?)
 * 10/4/97 - began heavy inline documentation of the code. Corrected typos and spelling mistakes.
 * 10/5/97 - added code to handle PHY interrupts, disable PHY on loss of link, and correctly re-enable PHY when link is re-established. (put back CFG_PHYIE)
 *
 * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
 *
 * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
 *
 * Linux driver for the IDT77201 NICStAR PCI ATM controller.
 * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
 * see init_nicstar() for PHY initialization to change this. This driver expects the Linux ATM stack to support scatter-gather lists
 * (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
 *
 * Implementing minimal-copy of received data:
 * IDT always receives data into a small buffer, then large buffers
 * as needed. This means that data must always be copied to create the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
 * Fix is simple: make large buffers large enough to hold entire SDU, and leave <small_buffer_data> bytes empty at the start. Then copy small buffer contents to head of large buffer.
 * Trick is to avoid fragmenting Linux, due to need for a lot of large buffers. This is done by 2 things:
 * 1) skb->destructor / skb->atm.recycle_buffer
 * combined, allow nicstar_free_rx_skb to be called to recycle large data buffers
 * 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation details.

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* M. Welsh, 6 July 1996

*/

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.. note::

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Thanks go to the following people for patches and contributions:

- Michael Hunold <m.hunold@gmx.de>

- for the initial saa7146 driver and its recent overhaul

- Christian Theiss

- for his work on the initial Linux DVB driver

- Marcus Metzler <mocm@metzlerbros.de> and
  Ralph Metzler <rjkm@metzlerbros.de>
- for their continuing work on the DVB driver

- Michael Holzt <kju@debian.org>

- for his contributions to the dvb-net driver

- Diego Picciani <d.picciani@novacomp.it>

- for CyberLogin for Linux which allows logging onto EON
  (in case you are wondering where CyberLogin is, EON changed its login
  procedure and CyberLogin is no longer used.)

- Martin Schaller <martin@smurf.franken.de>

- for patching the cable card decoder driver

- Klaus Schmidinger <Klaus.Schmidinger@cadsoft.de>

- for various fixes regarding tuning, OSD and CI stuff and his work on VDR

- Steve Brown <sbrown@cortland.com>

- for his AFC kernel thread

- Christoph Martin <martin@uni-mainz.de>

- for his LIRC infrared handler

- Andreas Oberritter <obi@linuxtv.org>,
  Dennis Noermann <dennis.noermann@noernet.de>,
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  Florian Schirmer <jolt@tuxbox.org>,
  Ronny Strutz <3des@elitedvb.de>,
  Wolfram Joost <dbox2@frokaschwei.de>
  and all the other dbox2 people

- for many bugfixes in the generic DVB Core, frontend drivers and
  their work on the dbox2 port of the DVB driver

- Oliver Endriss <o.endriss@gmx.de>

- for many bugfixes

- Andrew de Quincey <adq_dvb@lidskialf.net>

- for the tda104x frontend driver, and various bugfixes
- Peter Schildmann <peter.schildmann@web.de>

- for the driver for the Technisat SkyStar2 PCI DVB card

- Vadim Catana <skystar@moldova.cc>, Roberto Ragusa <r.ragusa@libero.it> and Augusto Cardoso <augusto@carhil.net>

- for all the work for the FlexCopII chipset by B2C2,Inc.

- Davor Emard <emard@softhome.net>

- for his work on the budget drivers, the demux code, the module unloading problems, ...

- Hans-Frieder Vogt <hfvogt@arcor.de>

- for his work on calculating and checking the crc's for the TechnoTrend/Hauppauge DEC driver firmware

- Michael Dreher <michael@5dot1.de> and Andreas 'randy' Weinberger

- for the support of the Fujitsu-Siemens Activy budget DVB-S

- Kenneth Aafly <ke-aa@frisurf.no>

- for adding support for Typhoon DVB-S budget card

- Ernst Peinlich <e.peinlich@inode.at>

- for tuning/DiSEqC support for the DEC 3000-s

- Peter Beutner <p.beutner@gmx.net>

- for the IR code for the ttusb-dec driver

- Wilson Michaels <wilsonmichaels@earthlink.net>

- for the lgdt330x frontend driver, and various bugfixes

- Michael Krufky <mkrüfky@linuxtv.org>

- for maintaining v4l/dvb inter-tree dependencies

- Taylor Jacob <rtjacob@earthlink.net>

- for the nxt2002 frontend driver
- Jean-Francois Thibert <jeanfrancois@sagetv.com>

- for the nxt2004 frontend driver

- Kirk Lapray <kirk.lapray@gmail.com>

- for the or51211 and or51132 frontend drivers, and
  for merging the nxt2002 and nxt2004 modules into a
  single nxt200x frontend driver.

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```
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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com) */
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
* *
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on loss of link, and correctly re-enable PHY when link is re-established. (put back CFG_PHYIE)
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.

* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997

* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
* 
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
*     combined, allow nicstar_free_rx_skb to be called to
*     recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.

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* M. Welsh, 6 July 1996

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{
    return (strcmp(license, "GPL") == 0
            || strcmp(license, "GPL v2") == 0
            || strcmp(license, "GPL and additional rights") == 0
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}
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Version 2, June 1991

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[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without
changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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its purpose remains meaningful.

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.. note::

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- Michael Hunold <m.hunold@gmx.de>

- for the initial saa7146 driver and its recent overhaul

- Christian Theiss

- for his work on the initial Linux DVB driver

- Marcus Metzler <mocm@metzlerbros.de> and Ralph Metzler <rjkm@metzlerbros.de>

- for their continuing work on the DVB driver

- Michael Holzt <kju@debian.org>

- for his contributions to the dvb-net driver

- Diego Picciani <d.picciani@novacomp.it>

- for CyberLogin for Linux which allows logging onto EON
  (in case you are wondering where CyberLogin is, EON changed its login procedure and CyberLogin is no longer used.)

- Martin Schaller <martin@smurf.franken.de>

- for patching the cable card decoder driver

- Klaus Schmidinger <Klaus.Schmidinger@cadsoft.de>
- for various fixes regarding tuning, OSD and CI stuff and his work on VDR

- Steve Brown <sbrown@cortland.com>

- for his AFC kernel thread

- Christoph Martin <martin@uni-mainz.de>

- for his LIRC infrared handler

- Andreas Oberritter <obi@linuxtv.org>,
  Dennis Noermann <dennis.noermann@noernet.de>,
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  Ronny Strutz <3des@elitedvb.de>,
  Wolfram Joost <dbox2@frokaschwei.de>
  and all the other dbox2 people

- for many bugfixes in the generic DVB Core, frontend drivers and
  their work on the dbox2 port of the DVB driver

- Oliver Endriss <o.endriss@gmx.de>

- for many bugfixes

- Andrew de Quincey <adq_dvb@lidskialf.net>

- for the tda1004x frontend driver, and various bugfixes

- Peter Schildmann <peter.schildmann@web.de>

- for the driver for the Technisat SkyStar2 PCI DVB card

- Vadim Catana <skystar@moldova.cc>,
  Roberto Ragusa <r.ragusa@libero.it> and
  Augusto Cardoso <augusto@carhil.net>

- for all the work for the FlexCopII chipset by B2C2,Inc.

- Davor Emard <emard@sothome.net>

- for his work on the budget drivers, the demux code,
  the module unloading problems, ...

- Hans-Frieder Vogt <hfvogt@arcor.de>

- for his work on calculating and checking the crc's for the
TechnoTrend/Hauppauge DEC driver firmware

- Michael Dreher <michael@5dot1.de> and Andreas 'randy' Weinberger

- for the support of the Fujitsu-Siemens Activy budget DVB-S

- Kenneth Aafly <ke-aa@frisurf.no>

- for adding support for Typhoon DVB-S budget card

- Ernst Peinlich <e.peinlich@inode.at>

- for tuning/DiSEqC support for the DEC 3000-s

- Peter Beutner <p.beutner@gmx.net>

- for the IR code for the ttusb-dec driver

- Wilson Michaels <wilsonmichaels@earthlink.net>

- for the lgdt330x frontend driver, and various bugfixes

- Michael Krufky <mkrufty@linuxtv.org>

- for maintaining v4l/dvb inter-tree dependencies

- Taylor Jacob <rtjacob@earthlink.net>

- for the nxt2002 frontend driver

- Jean-Francois Thibert <jeanfrancois@sagetv.com>

- for the nxt2004 frontend driver

- Kirk Lapray <kirk.lapray@gmail.com>

- for the or51211 and or51132 frontend drivers, and
  for merging the nxt2002 and nxt2004 modules into a
  single nxt200x frontend driver.

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{

#endif

return (strcmp(license, "GPL") == 0
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|| strcmp(license, "GPL and additional rights") == 0
|| strcmp(license, "Dual BSD/GPL") == 0
|| strcmp(license, "Dual MIT/GPL") == 0
|| strcmp(license, "Dual MPL/GPL") == 0);
}
#endif

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/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 *
 * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
 * http://www.hypermall.com/
 * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
 * interrupts us (except possibly for removal/insertion of the cable?)
 * 10/4/97 - began heavy inline documentation of the code. Corrected typos
 * and spelling mistakes.
 * 10/5/97 - added code to handle PHY interrupts, disable PHY on
 * loss of link, and correctly re-enable PHY when link is
 * re-established. (put back CFG_PHYIE)
 *
 * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
 *
 * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
 *
 * Linux driver for the IDT77201 NICStAR PCI ATM controller.
 * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
 * see init_nicstar() for PHY initialization to change this. This driver
 * expects the Linux ATM stack to support scatter-gather lists
 * (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
 *
 * Implementing minimal-copy of received data:
 * IDT always receives data into a small buffer, then large buffers
 * as needed. This means that data must always be copied to create
 * the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
 * Fix is simple: make large buffers large enough to hold entire
 * SDU, and leave <small_buffer_data> bytes empty at the start. Then
 * copy small buffer contents to head of large buffer.
 * Trick is to avoid fragmenting Linux, due to need for a lot of large
 * buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
*     combined, allow nicstar_free_rx_skb to be called to
*     recycle large data buffers
* 2) skb_clone of received buffers
*     See nicstar_free_rx_skb and linearize_buffer for implementation
*     details.
*
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* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
*
* M. Welsh, 6 July 1996
*
*
*/

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1.523 kernel 4.14.110

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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com) */
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
* 
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
* 
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
* 
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
* 
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->atm.recycle_buffer
* 2) skb->atm.recycle_buffer
* combined, allow nicstar_free_rx_skb to be called to
* recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
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            || strcmp(license, "GPL v2") == 0
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/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 * 
 * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
 * http://www.hypermall.com/
 * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
 * interrupts us (except possibly for removal/insertion of the cable?)
 * 10/4/97 - began heavy inline documentation of the code. Corrected typos
 * and spelling mistakes.
 * 10/5/97 - added code to handle PHY interrupts, disable PHY on
 * loss of link, and correctly re-enable PHY when link is
 * re-established. (put back CFG_PHYIE)
 * 
 * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
 * 
 * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
 * 
 * Linux driver for the IDT77201 NICStAR PCI ATM controller.
 * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
 * see init_nicstar() for PHY initialization to change this. This driver
 * expects the Linux ATM stack to support scatter-gather lists
 * (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
 * 
 * Implementing minimal-copy of received data:
 * IDT always receives data into a small buffer, then large buffers
 * as needed. This means that data must always be copied to create
 * the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
 * Fix is simple: make large buffers large enough to hold entire
 * SDU, and leave <small_buffer_data> bytes empty at the start. Then
 * copy small buffer contents to head of large buffer.
 * Trick is to avoid fragmenting Linux, due to need for a lot of large
 * buffers. This is done by 2 things:
1) skb->destructor / skb->atm.recycle_buffer
combined, allow nicstar_free_rx_skb to be called to
recycle large data buffers
2) skb_clone of received buffers
See nicstar_free_rx_skb and linearize_buffer for implementation
details.

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M. Welsh, 6 July 1996

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Thanks go to the following people for patches and contributions:

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- for the initial saa7146 driver and its recent overhaul

- Christian Theiss

- for his work on the initial Linux DVB driver

- Marcus Metzler <mocm@metzlerbros.de> and Ralph Metzler <rjkm@metzlerbros.de>

- for their continuing work on the DVB driver

- Michael Holzt <kju@debian.org>
- for his contributions to the dvb-net driver

- Diego Picciani <d.picciani@novacom.it>

- for CyberLogin for Linux which allows logging onto EON
  (in case you are wondering where CyberLogin is, EON changed its login
  procedure and CyberLogin is no longer used.)

- Martin Schaller <martin@smurf.franken.de>

- for patching the cable card decoder driver

- Klaus Schmidinger <Klaus.Schmidinger@cadsoft.de>

- for various fixes regarding tuning, OSD and CI stuff and his work on VDR

- Steve Brown <sbrown@cortland.com>

- for his AFC kernel thread

- Christoph Martin <martin@uni-mainz.de>

- for his LIRC infrared handler

- Andreas Oberritter <obi@linuxtv.org>,
  Dennis Noermann <dennis.noermann@noernet.de>,
  Felix Domke <tmbinc@elitedvb.net>,
  Florian Schirmer <jolt@tuxbox.org>,
  Ronny Strutz <3des@elitedvb.de>,
  Wolfram Joost <dbox2@frokaschwei.de>
  and all the other dbox2 people

- for many bugfixes in the generic DVB Core, frontend drivers and
  their work on the dbox2 port of the DVB driver

- Oliver Endriss <o.endriss@gmx.de>

- for many bugfixes

- Andrew de Quincey <adq_dvb@lidskialf.net>

- for the tda1004x frontend driver, and various bugfixes

- Peter Schildmann <peter.schildmann@web.de>

- for the driver for the Technisat SkyStar2 PCI DVB card
- Vadim Catana <skystar@moldova.cc>,
  Roberto Ragusa <r.ragusa@libero.it> and
  Augusto Cardoso <augusto@carhil.net>

- for all the work for the FlexCopII chipset by B2C2, Inc.

- Davor Emard <emard@softhome.net>

- for his work on the budget drivers, the demux code,
  the module unloading problems, ...

- Hans-Frieder Vogt <hfvogt@arcor.de>

- for his work on calculating and checking the crc's for the
  TechnoTrend/Hauppauge DEC driver firmware

- Michael Dreher <michael@5dot1.de> and
  Andreas 'randy' Weinberger

- for the support of the Fujitsu-Siemens Activity budget DVB-S

- Kenneth Aafly <ke-aa@frisurf.no>

- for adding support for Typhoon DVB-S budget card

- Ernst Peinlich <e.peinlich@inode.at>

- for tuning/DiSEqC support for the DEC 3000-s

- Peter Beutner <p.beutner@gmx.net>

- for the IR code for the ttusb-dec driver

- Wilson Michaels <wilsonmichaels@earthlink.net>

- for the lgdt330x frontend driver, and various bugfixes

- Michael Krufky <mkrufty@linuxtv.org>

- for maintaining v4l/dvb inter-tree dependencies

- Taylor Jacob <rtjacob@earthlink.net>

- for the nxt2002 frontend driver

- Jean-Francois Thibert <jeanfrancois@sagetv.com>

- for the nxt2004 frontend driver
- Kirk Lapray <kirk.lapray@gmail.com>

- for the or51211 and or51132 frontend drivers, and
  for merging the nxt2002 and nxt2004 modules into a
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1.524 kernel-4.14.85atom 2-1

1.525 kernel-devel 3.10.0 :327.28.el7

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Thanks go to the following people for patches and contributions:

Michael Hunold <m.hunold@gmx.de>
for the initial saa7146 driver and its recent overhaul

Christian Theiss
for his work on the initial Linux DVB driver

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for their continuing work on the DVB driver

Michael Holzt <kju@debian.org>
for his contributions to the dvb-net driver

Diego Picciani <d.picciani@novacomp.it>
for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login
procedure and CyberLogin is no longer used.)

Martin Schaller <martin@smurf.franken.de>
for patching the cable card decoder driver

Klaus Schmidinger <Klaus.Schmidinger@cadsoft.de>
for various fixes regarding tuning, OSD and CI stuff and his work on VDR

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...and all the other dbox2 people
for many bugfixes in the generic DVB Core, frontend drivers and
their work on the dbox2 port of the DVB driver

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for many bugfixes

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for the tda1004x frontend driver, and various bugfixes

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Augusto Cardoso <augusto@carhil.net>
for all the work for the FlexCopII chipset by B2C2,Inc.

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for his work on the budget drivers, the demux code,
the module unloading problems, ...

Hans-Frieder Vogt <hfvogt@arcor.de>
for his work on calculating and checking the crc's for the TechnoTrend/Hauppauge DEC driver firmware

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for the support of the Fujitsu-Siemens Activy budget DVB-S

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for the lgdt330x frontend driver, and various bugfixes

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for maintaining v4l/dvb inter-tree dependencies

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Kirk Lapray <kirk.lapray@gmail.com>
for the or51211 and or51132 frontend drivers, and for merging the nxt2002 and nxt2004 modules into a single nxt200x frontend driver.

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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 *
 * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
 * http://www.hypermall.com/
 * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
 * interrupts us (except possibly for removal/insertion of the cable?)
 * 10/4/97 - began heavy inline documentation of the code. Corrected typos
 * and spelling mistakes.
 * 10/5/97 - added code to handle PHY interrupts, disable PHY on
 * loss of link, and correctly re-enable PHY when link is
 * re-established. (put back CFG_PHYIE)
 *
 * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
 *
 * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
 *
 * Linux driver for the IDT77201 NICStAR PCI ATM controller.
 * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
 * see init_nicstar() for PHY initialization to change this. This driver
 * expects the Linux ATM stack to support scatter-gather lists
 * (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
 *
 * Implementing minimal-copy of received data:
 * IDT always receives data into a small buffer, then large buffers
 * as needed. This means that data must always be copied to create
 * the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
 * Fix is simple: make large buffers large enough to hold entire
 * SDU, and leave <small_buffer_data> bytes empty at the start. Then
 * copy small buffer contents to head of large buffer.
 * Trick is to avoid fragmenting Linux, due to need for a lot of large
 * buffers. This is done by 2 things:
 * 1) skb->destructor / skb->atm.recycle_buffer
 * combined, allow nicstar_free_rx_skb to be called to
 * recycle large data buffers
 * 2) skb_clone of received buffers
 * See nicstar_free_rx_skb and linearize_buffer for implementation
 * details.
 *
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*
* M. Welsh, 6 July 1996
*
*/

1.526 kernel-headers 3.10.0 :327.18.2.el7

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Thanks go to the following people for patches and contributions:

Michael Hunold <m.hunold@gmx.de>
for the initial saa7146 driver and its recent overhaul

Christian Theiss
for his work on the initial Linux DVB driver

Marcus Metzler <mocm@metzlerbros.de>
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for their continuing work on the DVB driver

Michael Holzt <kju@debian.org>
for his contributions to the dvb-net driver

Diego Picciani <d.picciani@novacomp.it>
for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login procedure and CyberLogin is no longer used.)

Martin Schaller <martin@smurf.franken.de>
for patching the cable card decoder driver

Klaus Schmidinger <Klaus.Schmidinger@cadsoft.de>
for various fixes regarding tuning, OSD and CI stuff and his work on VDR

Steve Brown <sbrown@cortland.com>
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...and all the other dbox2 people
for many bugfixes in the generic DVB Core, frontend drivers and
their work on the dbox2 port of the DVB driver

Oliver Endriss <o.endriss@gmx.de>
for many bugfixes

Andrew de Quincey <adq_dvb@lidskialf.net>
for the tda1004x frontend driver, and various bugfixes

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for the driver for the Technisat SkyStar2 PCI DVB card

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for merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a
line to the DVB mailing list)
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QLogic Linux FC-FCoE Driver

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/* nicstar.c v0.22  Jawaid Bazyar (bazyar@hypermall.com) */
/* * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk) */
/* */
/* * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc. */
/* * http://www.hypermall.com/ */
/* * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY */
/* *interrupts us (except possibly for removal/insertion of the cable?) */
/* * 10/4/97 - began heavy inline documentation of the code. Corrected typos */
/* *and spelling mistakes. */
/* * 10/5/97 - added code to handle PHY interrupts, disable PHY on */
/* *loss of link, and correctly re-enable PHY when link is */
/* *re-established. (put back CFG_PHYIE) */
/* */
/* * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only. */
/* */
/* * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997 */
/* */
/* * Linux driver for the IDT77201 NICStAR PCI ATM controller. */
/* * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155; */
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
* combined, allow nicstar_free_rx_skb to be called to
* recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
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* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
*
* M. Welsh, 6 July 1996
*
*/

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Bhavin Shah
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/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*  
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
*  
* http://www.hypermall.com/
*  
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
*  
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
*  
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*  
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*  
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*  
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
*  
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
 *
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
*    combined, allow nicstar_free_rx_skb to be called to
*    recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
*
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*
* M. Welsh, 6 July 1996
*
*
*/

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```
#ifndef __LICENSE_H
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{
    return (strcmp(license, "GPL") == 0
           || strcmp(license, "GPL v2") == 0
           || strcmp(license, "GPL and additional rights") == 0
           || strcmp(license, "Dual BSD/GPL") == 0
           || strcmp(license, "Dual MIT/GPL") == 0
           || strcmp(license, "Dual MPL/GPL") == 0);
}
#endif

```

```
#endif

```

```
static inline int license_is_gpl_compatible(const char *license)
{
    return (strcmp(license, "GPL") == 0
           || strcmp(license, "GPL v2") == 0
           || strcmp(license, "GPL and additional rights") == 0
           || strcmp(license, "Dual BSD/GPL") == 0
           || strcmp(license, "Dual MIT/GPL") == 0
           || strcmp(license, "Dual MPL/GPL") == 0);
}
```

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13568
```
|| strcmp(license, "Dual MPL/GPL") == 0);
}

#endif
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Thanks go to the following people for patches and contributions:

Michael Hunold <m.hunold@gmx.de>
for the initial saa7146 driver and its recent overhaul

Christian Theiss
for his work on the initial Linux DVB driver

Marcus Metzler <mocm@metzlerbros.de>
Ralph Metzler <rjkm@metzlerbros.de>
for their continuing work on the DVB driver

Michael Holzt <kju@debian.org>
for his contributions to the dvb-net driver

Diego Picciani <d.picciani@novacomp.it>
for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login
procedure and CyberLogin is no longer used.)

Martin Schaller <martin@smurf.franken.de>
for patching the cable card decoder driver

Klaus Schmidinger <Klaus.Schmidinger@cadsoft.de>
for various fixes regarding tuning, OSD and CI stuff and his work on VDR

Steve Brown <sbrown@cortland.com>
for his AFC kernel thread

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...and all the other dbox2 people
for many bugfixes in the generic DVB Core, frontend drivers and
their work on the dbox2 port of the DVB driver

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for many bugfixes

Andrew de Quincey <adq_dvb@lidskialf.net>
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for the driver for the Technisat SkyStar2 PCI DVB card

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Augusto Cardoso <augusto@carhil.net>
for all the work for the FlexCopII chipset by B2C2, Inc.

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for his work on the budget drivers, the demux code,
the module unloading problems, ...

Hans-Frieder Vogt <hfvogt@arcor.de>
for his work on calculating and checking the crc's for the
TechnoTrend/Hauppauge DEC driver firmware

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for the support of the Fujitsu-Siemens Activy budget DVB-S

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Wilson Michaels <wilsonmichaels@earthlink.net>
for the lgdt330x frontend driver, and various bugfixes

Michael Krufky <mkrufky@m1k.net>
for maintaining v4l/dvb inter-tree dependencies

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Jean-Francois Thibert <jeanfrancois@sagetv.com>
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Kirk Lapray <kirk.lapray@gmail.com>
for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.

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Thanks go to the following people for patches and contributions:

Michael Hunold <m.hunold@gmx.de>
for the initial saa7146 driver and its recent overhaul

Christian Theiss
for his work on the initial Linux DVB driver

Marcus Metzler <mocm@metzlerbros.de>
Ralph Metzler <rjkm@metzlerbros.de>
for their continuing work on the DVB driver

Michael Holzt <kju@debian.org>
for his contributions to the dvb-net driver

Diego Picciani <d.picciani@novacomp.it>
for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login
procedure and CyberLogin is no longer used.)

Martin Schaller <martin@smurf.franken.de>
for patching the cable card decoder driver

Klaus Schmidinger <Klaus.Schmidinger@cadsoft.de>
for various fixes regarding tuning, OSD and CI stuff and his work on VDR

Steve Brown <sbrown@cortland.com>
for his AFC kernel thread

Christoph Martin <martin@uni-mainz.de>
for his LIRC infrared handler

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Ronny Strutz <3des@elitedvb.de>
Wolfram Joost <dbox2@frokaschwei.de>
...and all the other dbox2 people
for many bugfixes in the generic DVB Core, frontend drivers and
their work on the dbox2 port of the DVB driver

Oliver Endriss <o.endriss@gmx.de>
for many bugfixes
Andrew de Quincey <adq_dvb@lidskialf.net>
for the tda1004x frontend driver, and various bugfixes

Peter Schildmann <peter.schildmann@web.de>
for the driver for the Technisat SkyStar2 PCI DVB card

Vadim Catana <skystar@moldova.cc>
Roberto Ragusa <r.ragusa@libero.it>
Augusto Cardoso <augusto@carhil.net>
for all the work for the FlexCopII chipset by B2C2,Inc.

Davor Emard <emard@softhome.net>
for his work on the budget drivers, the demux code,
the module unloading problems, ...

Hans-Frieder Vogt <hfvogt@arcor.de>
for his work on calculating and checking the crc's for the
TechnoTrend/Hauppauge DEC driver firmware

Michael Dreher <michael@5dot1.de>
Andreas 'randy' Weinberger
for the support of the Fujitsu-Siemens Activy budget DVB-S

Kenneth Aafly <ke-aa@frisurf.no>
for adding support for Typhoon DVB-S budget card

Ernst Peinlich <e.peinlich@inode.at>
for tuning/DiSEqC support for the DEC 3000-s

Peter Beutner <p.beutner@gmx.net>
for the IR code for the ttusb-dec driver

Wilson Michaels <wilsonmichaels@earthlink.net>
for the lgdt330x frontend driver, and various bugfixes

Michael Krufky <mkrufky@m1k.net>
for maintaining v4l/dvb inter-tree dependencies

Taylor Jacob <rtjacob@earthlink.net>
for the nxt2002 frontend driver

Jean-Francois Thibert <jeanfrancois@sagetv.com>
for the nxt2004 frontend driver

Kirk Lapray <kirk.lapray@gmail.com>
for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.

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1.528 kernel-tools-libs 3.10.0-957.1.3.el7

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{
    return (strcmp(license, "GPL") == 0
            || strcmp(license, "GPL v2") == 0
            || strcmp(license, "GPL and additional rights") == 0
            || strcmp(license, "Dual BSD/GPL") == 0
            || strcmp(license, "Dual MIT/GPL") == 0
            || strcmp(license, "Dual MPL/GPL") == 0);
}

#endif
```

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Michael Hunold <m.hunold@gmx.de>
for the initial saa7146 driver and its recent overhaul

Christian Theiss
for his work on the initial Linux DVB driver

Marcus Metzler <mocm@metzlerbros.de>
Ralph Metzler <rjkm@metzlerbros.de>
for their continuing work on the DVB driver

Michael Holzt <kju@debian.org>
for his contributions to the dvb-net driver

Diego Picciani <d.picciani@novacomp.it>
for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login
procedure and CyberLogin is no longer used.)

Martin Schaller <martin@smurf.franken.de>
for patching the cable card decoder driver

Klaus Schmidinger <Klaus.Schmidinger@cadsoft.de>
for various fixes regarding tuning, OSD and CI stuff and his work on VDR

Steve Brown <sbrown@cortland.com>
for his AFC kernel thread

Christoph Martin <martin@uni-mainz.de>
for his LIRC infrared handler

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Ronny Strutz <3des@elitedvb.de>
Wolfram Joost <dbox2@frokaschwei.de>
...and all the other dbox2 people
for many bugfixes in the generic DVB Core, frontend drivers and
their work on the dbox2 port of the DVB driver

Oliver Endriss <o.endriss@gmx.de>
for many bugfixes

Andrew de Quincey <adq_dvb@lidskialf.net>
for the tda1004x frontend driver, and various bugfixes

Peter Schildmann <peter.schildmann@web.de>
for the driver for the Technisat SkyStar2 PCI DVB card

Vadim Catana <skystar@moldova.cc>
Roberto Ragusa <r.ragusa@libero.it>
Augusto Cardoso <augusto@carhil.net>
for all the work for the FlexCopII chipset by B2C2,Inc.

Davor Emard <emard@softhome.net>
for his work on the budget drivers, the demux code,
the module unloading problems, ...

Hans-Frieder Vogt <hfvogt@arcor.de>
for his work on calculating and checking the crc's for the
TechnoTrend/Hauppauge DEC driver firmware

Michael Dreher <michael@5dot1.de>
Andreas 'randy' Weinberger
for the support of the Fujitsu-Siemens Activy budget DVB-S

Kenneth Aafly <ke-aa@frisurf.no>
for adding support for Typhoon DVB-S budget card

Ernst Peinlich <e.peinlich@inode.at>
for tuning/DiSEqC support for the DEC 3000-s

Peter Beutner <p.beutner@gmx.net>
for the IR code for the ttusb-dec driver

Wilson Michaels <wilsonmichaels@earthlink.net>
for the lgdt330x frontend driver, and various bugfixes

Michael Krufky <mkruflky@m1k.net>
for maintaining v4l/dvb inter-tree dependencies

Taylor Jacob <rtjacob@earthlink.net>
for the nxt2002 frontend driver

Jean-Francois Thibert <jeanfrancois@sagetv.com>
for the nxt2004 frontend driver

Kirk Lapray <kirk.lapray@gmail.com>
for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
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Thanks go to the following people for patches and contributions:

Michael Hunold <m.hunold@gmx.de>
for the initial saa7146 driver and its recent overhaul

Christian Theiss
for his work on the initial Linux DVB driver
Marcus Metzler <mocm@metzlerbros.de>
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for their continuing work on the DVB driver

Michael Holzt <kju@debian.org>
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Diego Picciani <d.picciani@novacomp.it>
for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login
procedure and CyberLogin is no longer used.)

Martin Schaller <martin@smurf.franken.de>
for patching the cable card decoder driver

Klaus Schmidinger <Klaus.Schmidinger@cadsoft.de>
for various fixes regarding tuning, OSD and CI stuff and his work on VDR

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for his AFC kernel thread

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...and all the other dbox2 people
for many bugfixes in the generic DVB Core, frontend drivers and
their work on the dbox2 port of the DVB driver

Oliver Endriss <o.endriss@gmx.de>
for many bugfixes

Andrew de Quincey <adq_dvb@lidskialf.net>
for the tda1004x frontend driver, and various bugfixes

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Augusto Cardoso <augusto@carhil.net>
for all the work for the FlexCopII chipset by B2C2,Inc.
Davor Emard <emard@softhome.net>
for his work on the budget drivers, the demux code,
the module unloading problems, ...

Hans-Frieder Vogt <hfvogt@arcor.de>
for his work on calculating and checking the crc's for the
TechnoTrend/Hauppauge DEC driver firmware

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Andreas 'randy' Weinberger
for the support of the Fujitsu-Siemens Activy budget DVB-S

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Wilson Michaels <wilsonmichaels@earthlink.net>
for the lgdt330x frontend driver, and various bugfixes

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Jean-Francois Thibert <jeanfrancois@sagetv.com>
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Kirk Lapray <kirk.lapray@gmail.com>
for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.

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/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com) */
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk) *
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc. *
* http://www.hypermall.com/ *
* 10/1/97 - commented out CFG PHYIE bit - we don't care when the PHY
*interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStar PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
*    combined, allow nicstar_free_rx_skb to be called to
*    recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
*
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1.533 keyutils 1.5.8 :3.el7

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6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.
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1.534 keyutils-libs 1.5.8 :3.el7

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Version 2.1, February 1999

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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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1.535 keyutils-libs-devel 1.5.8 :3.el7

1.535.1 Available under license :

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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   a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

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   c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

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1.536 keyutils_GPLv2 1.5.8 :3.el7
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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
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Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
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This is free software, and you are welcome to redistribute it
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The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
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mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

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`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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1.539 kpartx 0.4.9-123

1.540 kpartx 0.4.9 :85.el7_2.4
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Finally, any free program is threatened constantly by software
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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don’t assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event the application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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That's all there is to it!
1.541 kpartx 0.4.9 :123.el7

1.542 kpartx 0.4.9 :56.el6.x86_64

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Preamble

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Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

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lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
and the initial implementation of incremental propagation, including the following new or changed files:

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kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in:

- `lib/gssapi/generic/gssapi_err_generic.c`
- `lib/gssapi/mechglue/g_accept_sec_context.c`
- `lib/gssapi/mechglue/g_acquire_creds.c`
- `lib/gssapi/mechglue/g_canon_name.c`
- `lib/gssapi/mechglue/g_compare_name.c`
- `lib/gssapi/mechglue/g_context_time.c`
- `lib/gssapi/mechglue/g_delete_sec_context.c`
- `lib/gssapi/mechglue/g_get_name.c`
- `lib/gssapi/mechglue/g_set_name.c`
- `lib/gssapi/mechglue/g_set_cred.c`
- `lib/gssapi/mechglue/g_set_context.c`
and the initial implementation of incremental propagation, including
the following new or changed files:

```
#include <iprop_hdr.h>
```
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.. parsed-literal::

   .. parsed-literal:::

      lib/gssapi/generic/gssapi_err_generic.et
      lib/gssapi/mechglue/g_accept_sec_context.c
      lib/gssapi/mechglue/g_acquire_cred.c
      lib/gssapi/mechglue/g_canon_name.c
      lib/gssapi/mechglue/g_compare_name.c
      lib/gssapi/mechglue/g_context_time.c
      lib/gssapi/mechglue/g_delete_sec_context.c
      lib/gssapi/mechglue/g_dup_name.c
      lib/gssapi/mechglue/g_dsp_name.c
      lib/gssapi/mechglue/g_exp_sec_context.c
      lib/gssapi/mechglue/g_export_name.c
      lib/gssapi/mechglue/g_glue.c
and the initial implementation of incremental propagation, including
the following new or changed files:

.. parsed-literal::

   include/iprop_hdr.h
   kadmin/server/ipropd_svc.c
   lib/kdb/prop.x
   lib/kdb/kdb_convert.c
   lib/kdb/kdb_log.c
   lib/kdb/kdb_log.h
   lib/krb5/error_tables/kdb5_err.et
   slave/kpropd_rpc.c
   slave/kproplog.c

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import os
import sys
import re

def warn(fname, ln, msg):
    print '%s: %d: %s' % (fname, ln + 1, msg)
def indicates_license(line):
    return 'Copyright' in line or 'COPYRIGHT' in line or 'License' in line

# Check a comment for boilerplate violations. Return true if the comment
# is a license statement.
def check_comment(comment, fname, ln, code_seen, nonlicense_seen):
    text_seen = False
    is_license = False
    for line in comment:
        if not is_license and indicates_license(line):
            is_license = True
        if text_seen:
            warn(fname, ln, 'License begins after first line of comment')
        elif code_seen:
            warn(fname, ln, 'License after code')
        elif nonlicense_seen:
            warn(fname, ln, 'License after non-license comments')
            break
        # DB2 licenses start with '/**-' and we don't want to change them.
        if line != '' and line != '-':
            text_seen = True
    return is_license

def check_file(lines, fname):
    # Skip emacs mode line if present.
    ln = 0
    if '-*- mode: c;' in lines[ln]:
        ln += 1
    # Check filename comment if present.
    m = re.match(r'/\* ([^ ]*) (- .*)? */', lines[ln])
    if m:
        if m.group(1) != fname:
            warn(fname, ln, 'Wrong filename in comment')
        ln += 1
    # Scan for license statements.
in_comment = False
code_seen = False
nonlicense_seen = False
for line in lines[ln:]:
    # Strip out whitespace and comments contained within a line.
    if not in_comment:
        line = re.sub(r'/\*.*?\*/', '', line)
        line = line.strip()
    if not in_comment and '/**' in line:
        (line, sep, comment_part) = line.partition('/**')
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1.544 krb5 1.13.2 :12.el7_2

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lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
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lib/gssapi/mechglue/g_acquire_creds.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_creds.c
lib/gssapi/mechglue/g_inquire_names.c
and the initial implementation of incremental propagation, including the following new or changed files:

- include/iprop_hdr.h
- kadmin/server/ipropd_svc.c
- lib/kdb/iprop.x
- lib/kdb/kgb_convert.c
- lib/kdb/kgb_log.c
- lib/kdb/kgb_log.h
- lib/kgb/error_tables/kgb5_err.et
- slave/kpropd_rpc.c
- slave/kproplog.c

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import sys
import re

def warn(fname, ln, msg):

print 's: %d: %s' % (fname, ln + 1, msg)

def indicates_license(line):
    return 'Copyright' in line or 'COPYRIGHT' in line or 'License' in line

# Check a comment for boilerplate violations. Return true if the comment
# is a license statement.
def check_comment(comment, fname, ln, code_seen, nonlicense_seen):
    text_seen = False
    is_license = False
    for line in comment:
        if not is_license and indicates_license(line):
            is_license = True
        if text_seen:
            warn(fname, ln, 'License begins after first line of comment')
        elif code_seen:
            warn(fname, ln, 'License after code')
        elif nonlicense_seen:
            warn(fname, ln, 'License after non-license comments')
        break
    # DB2 licenses start with '/*- -' and we don't want to change them.
    if line != '' and line != '-':
        text_seen = True
    return is_license

def check_file(lines, fname):
    # Skip emacs mode line if present.
    ln = 0
    if '-*- mode: c;' in lines[ln]:
        ln += 1
    # Check filename comment if present.
    m = re.match(r'/\* ([^ \])* ( - .*)? \*/', lines[ln])
    if m:
        if m.group(1) != fname:
            warn(fname, ln, 'Wrong filename in comment')
        ln += 1
    # Scan for license statements.
    in_comment = False
    code_seen = False
    nonlicense_seen = False
    for line in lines[ln:]:
        # Strip out whitespace and comments contained within a line.
        if not in_comment:
            line = re.sub(r'\w*.*?\w/*', '', line)
        line = line.strip()
if not in_comment and '/' in line:
    (line, sep, comment_part) = line.partition('/*')
    comment = [comment_part.strip()]
    comment_starts_at = ln
    in_comment = True
elif in_comment and '*/' not in line:
    comment.append(line.lstrip('*').lstrip())
elif in_comment:
    (comment_part, sep, line) = line.partition('*/')
    comment.append(comment_part.strip())
is_license = check_comment(comment, fname, comment_starts_at, code_seen, nonlicense_seen)
    nonlicense_seen = nonlicense_seen or not is_license
    in_comment = False
elif line.strip() != '':
    code_seen = True
    ln += 1

for fname in sys.argv[1:]:
    if fname.startswith('./'):
        fname = fname[2:]
    f = open(fname)
    lines = f.readlines()
    f.close()
    check_file(lines, fname)

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including
the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kprophlog.c

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    VERSION:     '1.15.1',
    COLLAPSE_INDEX: false,
    FILE_SUFFIX: '.html',
    HAS_SOURCE:  true
};
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```python
lib/gssapi/lib/gssapi_err_generic.c
lib/gssapi/lib/gssapi/g_acquire_cred.c
lib/gssapi/lib/gssapi/g_accept_sec_context.c
lib/gssapi/lib/gssapi/g_compare_name.c
lib/gssapi/lib/gssapi/g_context_time.c
lib/gssapi/lib/gssapi/g_delete_sec_context.c
lib/gssapi/lib/gssapi/g_dsp_name.c
lib/gssapi/lib/gssapi/g_dsp_status.c
lib/gssapi/lib/gssapi/g_canon_name.c
lib/gssapi/lib/gssapi/g_compare_name.c
lib/gssapi/lib/gssapi/g_context_time.c
lib/gssapi/lib/gssapi/g_delete_sec_context.c
lib/gssapi/lib/gssapi/g_dsp_name.c
lib/gssapi/lib/gssapi/g_dsp_status.c
```
and the initial implementation of incremental propagation, including
the following new or changed files:

```python
#include <iprop_hdr.h>
/kadmin/server/ipropd_svc.c
/lib/kdb/ipropx
/lib/kdb/kdb_convert.c
/lib/kdb/kdb_log.c
```

`<p>`

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```python
#include <iprop_hdr.h>
/kadmin/server/ipropd_svc.c
/lib/kdb/ipropx
/lib/kdb/kdb_convert.c
/lib/kdb/kdb_log.c
```
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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in
``src/lib/gssapi``, including the following files:

.. parsed-literal::

   lib/gssapi/generic/gssapi_err_generic.et
   lib/gssapi/mechglue/accept_sec_context.c
   lib/gssapi/mechglue/acquire_cred.c
   lib/gssapi/mechglue/canon_name.c
   lib/gssapi/mechglue/compare_name.c
   lib/gssapi/mechglue/context_time.c
   lib/gssapi/mechglue/delete_sec_context.c
   lib/gssapi/mechglue/dsp_name.c
   lib/gssapi/mechglue/dsp_status.c
   lib/gssapi/mechglue/dup_name.c
   lib/gssapi/mechglue/exp_sec_context.c
   lib/gssapi/mechglue/export_name.c
   lib/gssapi/mechglue/glue.c
   lib/gssapi/mechglue/imp_name.c
   lib/gssapi/mechglue/imp_sec_context.c
   lib/gssapi/mechglue/init_sec_context.c
   lib/gssapi/mechglue/initize.c
   lib/gssapi/mechglue/inquire_context.c
   lib/gssapi/mechglue/inquire_cred.c
   lib/gssapi/mechglue/inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_rel_oid.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_store_cred.c
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lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including
the following new or changed files:

.. parsed-literal::

    include/iprop_hdr.h
    kadmin/server/ipropd_svc.c
    lib/kdb/prop.x
    lib/kdb/kdb_convert.c
    lib/kdb/kdb_log.c
    lib/kdb/kdb_log.h
slave/kpropd_rpc.c
slave/kproplog.c

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lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store.cred.c
and the initial implementation of incremental propagation, including
the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c

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1.547 krb5-libs 1.9 :33.el6_3.3.x86_64

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@exampleindent 2
@documentencoding UTF-8
@set noticefile
@node Top, , (dir), (dir)
@include definitions.texinfo
@include copyright.texinfo
@ifnext
@begingroup
@smallfonts @rm
@end iftex
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lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
and the initial implementation of incremental propagation, including
the following new or changed files:

```
@smallexample
include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/kg5/error_tables/kg5_err.et
slave/kpropd_rpc.c
slave/kproplog.c
@end smallexample
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lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
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lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
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lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including
the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c

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metrics from the pseudo-filesystem proc.

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goproperties - properties file decoder for Go

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http://github.com/gogo/protobuf/gogoproto

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package spec

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject

type License struct {
    Name string `json:"name"`
}
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PACKAGE

package goautoneg
import "bitbucket.org/ww/goautoneg"

HTTP Content-Type Autonegotiation.

The functions in this package implement the behaviour specified in http://www.w3.org/Protocols/rfc2616/rfc2616-sec14.html

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FUNCTIONS

func Negotiate(header string, alternatives []string) (content_type string)
Negotiate the most appropriate content_type given the accept header and a list of alternatives.

func ParseAccept(header string) (accept []Accept)
Parse an Accept Header string returning a sorted list of clauses

TYPES

type Accept struct {
    Type, SubType string
    Q            float32
    Params       map[string]string
}
Structure to represent a clause in an HTTP Accept Header

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Buffruneio is a wrapper around bufio to provide buffered runes access with unlimited unreads.

```go
import "github.com/pelletier/go-buffruneio"
```

## Examples

```go
import (  
  "fmt"  
  "github.com/pelletier/go-buffruneio"  
  "strings" 
)

fmt.Println(reader.ReadRune()) // 'a'  
fmt.Println(reader.ReadRune()) // 'b'  
fmt.Println(reader.ReadRune()) // 'c'  
reader.UnreadRune()  
reader.UnreadRune()  
fmt.Println(reader.ReadRune()) // 'b'  
fmt.Println(reader.ReadRune()) // 'c'  
```

## Documentation

The documentation and additional examples are available at

## Contribute

Feel free to report bugs and patches using GitHub's pull requests system on [pelletier/go-toml](https://github.com/pelletier/go-buffruneio). Any feedback is much appreciated!

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// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"`
}

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FUNCTIONS

func Negotiate(header string, alternatives []string) (content_type string)
Negotiate the most appropriate content_type given the accept header and a list of alternatives.

func ParseAccept(header string) (accept []Accept)
Parse an Accept Header string returning a sorted list of clauses

TYPES

type Accept struct {
    Type, SubType string
    Q        float32
    Params    map[string]string
}
Structure to represent a clause in an HTTP Accept Header

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Buffruneio is a wrapper around bufio to provide buffered runes access with unlimited unreads.

```go
import "github.com/pelletier/go-buffruneio"
```

## Examples

```go
import (  
    "fmt"  
    "github.com/pelletier/go-buffruneio"  
    "strings"
)

fmt.Println(reader.ReadRune()) // 'a'  
fmt.Println(reader.ReadRune()) // 'b'  
fmt.Println(reader.ReadRune()) // 'c'  
reader.UnreadRune()  
reader.UnreadRune()  
fmt.Println(reader.ReadRune()) // 'b'  
fmt.Println(reader.ReadRune()) // 'c'
```

## Documentation

The documentation and additional examples are available at [godoc.org](http://godoc.org/github.com/pelletier/go-buffruneio).

## Contribute

Feel free to report bugs and patches using GitHub's pull requests system on [pelletier/go-toml](https://github.com/pelletier/go-buffruneio). Any feedback is much appreciated!

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    URL  string `json:"url,omitempty"
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http://github.com/gogo/protobuf/gogoproto

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PACKAGE
package goautoneg
import "bitbucket.org/ww/goautoneg"

HTTP Content-Type Autonegotiation.

The functions in this package implement the behaviour specified in http://www.w3.org/Protocols/rfc2616/rfc2616-sec14.html

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FUNCTIONS

func Negotiate(header string, alternatives []string) (content_type string)
Negotiate the most appropriate content_type given the accept header and a list of alternatives.

func ParseAccept(header string) (accept []Accept)
Parse an Accept Header string returning a sorted list of clauses

TYPES

type Accept struct {
    Type, SubType string
    Q float32
    Params map[string]string
}
Structure to represent a clause in an HTTP Accept Header

SUBDIRECTORIES

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Buffruneio is a wrapper around bufio to provide buffered runes access with unlimited reads.

```go
import "github.com/pelletier/go-buffruneio"
```

## Examples

```go
import (  
    "fmt"  
    "github.com/pelletier/go-buffruneio"  
    "strings"  
)

fmt.Println(reader.ReadRune()) // 'a'  
fmt.Println(reader.ReadRune()) // 'b'  
fmt.Println(reader.ReadRune()) // 'c'  
reader.UnreadRune()  
reader.UnreadRune()  
fmt.Println(reader.ReadRune()) // 'b'  
fmt.Println(reader.ReadRune()) // 'c'  
```
The documentation and additional examples are available at [godoc.org](http://godoc.org/github.com/pelletier/go-buffruneio).

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Feel free to report bugs and patches using GitHub's pull requests system on [pelletier/go-toml](https://github.com/pelletier/go-buffruneio). Any feedback is much appreciated!

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### 1.555 less 458-9

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Less License

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Less

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### 1.556 libacl 2.2.51 :12

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.
If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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1.562 libarchive 3.1.2 :7.el7

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1.564 libarchive-devel 3.3.2 :1.el7.centos

1.565 libart_lgpl 2.3.21 :10.el7
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Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.
We call this license the \texttt{Lesser} General Public License because it does \texttt{Less} to protect the user's freedom than the ordinary General Public License. It also provides other free software developers \texttt{Less} of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is \texttt{Less} protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a ``work based on the library'' and a ``work that uses the library''. The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
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// one line to give the library's name and an idea of what it does.

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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1.572 libattr-devel 2.4.46 :13.el7

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*/

1.573 libb64 0-1.2.1-3.2

1.574 libbasicobjects 0.1.1 :25.el7

1.574.1 Available under license :

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Version 3, 29 June 2007

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Initialize empty image
f1c9645dbc14efddc7d8a322685f26eb bsd.img

Create new DOS partition table
57e721e38d1266e2df055067c18f2ef9 bsd.img

---layout---------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

<table>
<thead>
<tr>
<th>Device</th>
<th>Boot</th>
<th>Start</th>
<th>End</th>
<th>Blocks</th>
<th>Id</th>
<th>System</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ts_dev</strong></td>
<td></td>
<td>2048</td>
<td>4095</td>
<td>1024</td>
<td>83</td>
<td>Linux</td>
</tr>
</tbody>
</table>

Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout---------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

<table>
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</thead>
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<tr>
<td><strong>ts_dev</strong></td>
<td></td>
<td>2048</td>
<td>4095</td>
<td>1024</td>
<td>83</td>
<td>Linux</td>
</tr>
</tbody>
</table>

Create 2st primary partition
1bebf87248e05d6e4e626749da65d023 bsd.img
Set 2nd partition type
2d8e8dfe51a88a045db233418dd73f8 bsd.img
---layout--------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

<table>
<thead>
<tr>
<th>Device Boot</th>
<th>Start</th>
<th>End</th>
<th>Blocks</th>
<th>Id</th>
<th>System</th>
</tr>
</thead>
<tbody>
<tr>
<td>__ts_dev__1</td>
<td>2048</td>
<td>4095</td>
<td>1024</td>
<td>83</td>
<td>Linux</td>
</tr>
<tr>
<td>__ts_dev__2</td>
<td>4096</td>
<td>20479</td>
<td>8192</td>
<td>a5</td>
<td>FreeBSD</td>
</tr>
</tbody>
</table>

Create default BSD
2e1cee529cb59c9341afe0443f196a1 bsd.img

---layout--------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
#        start      end       size      fstype     [fsize bsize   cpg]
c:  4096     20479        16384     unused        0     0      
d:      0     16064        16065     unused        0     0      

BSD disklabel command (m for help):
Command (m for help):
-------------------
b5c121c2091b2ff26b880551feac7112 bsd.img

---layout--------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
#        start      end       size      fstype     [fsize bsize   cpg]
a:  4096     6144        2049        4.2BSD        0     0      

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20519
c:  4096  20479  16384  unused  0  0

BSD disklabel command (m for help):
Command (m for help):

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

command (m for help):

BSD disklabel command (m for help):
0  unused           5  4.1BSD         9  4.4LFS           d  boot
1 swap           6 Eighth Edition    a unknown          e  ADOS
2 Version 6      7  4.2BSD           b HPFS           f  HFS
3 Version 7      8 MS-DOS           c ISO-9660          10 AdvFS
4 System V

BSD disklabel command (m for help):
size: 8388608, sector size: 512, PT: dos, offset: 446, id=0x8f8378c0
---
#1:   32  7648  0x83
#2:  7680  8704  0xa5
#5:  7936  4864  0x7 (freebsd)
#6: 12544  3584  0x7 (freebsd)

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When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of
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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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1.580 libblockdev-crypto 2.18 :3.el7

1.581 libblockdev-fs 2.18-3.el7

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1.584 libblockdev-swap 2.18-3.el7

1.585 libblockdev-utils 2.18-3
1.586 libbluray 0.2.3-5
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes
a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
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However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
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When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
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Otherwise, if the work is a derivative of the Library, you may
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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copy of the library already present on the user's computer system,
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5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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a purpose that is entirely well-defined independent of the
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.
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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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<one line to give the program's name and a brief idea of what it does.>
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`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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Public License instead of this License.

# This is a Makefile stub which handles the creation of BSD shared
# libraries.
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image: $(BSD_LIB)

$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS) $(OBJ))
$(MV) pic/$(BSD_LIB) .
$(RM) -f $(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) `echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)

install-strip: install

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)/$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)
/

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*/
Index: tdbsa/tdb.c
===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
/*
/* - Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
-
- Copyright (C) Andrew Tridgell 2005
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+ Copyright (C) Jeremy Allison 2000-2006
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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

http://sourceforge.net/projects/e2fsprogs

Upstream Author: Theodore Ts'o <tytso@mit.edu>

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This is the Debian GNU/Linux prepackaged version of the ss command-line interface parsing library library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>,

---

Open Source Used In Application Centric Infrastructure Service Engine (ACI-SE) 1.1
20769
from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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This is the Debian GNU/Linux prepackaged version of the EXT2 file system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

Sources were obtained from http://sourceforge.net/projects/e2fsprogs

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Upstream Author: Theodore Ts'o <tytso@mit.edu>

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This is the Debian GNU/Linux prepackaged version of the static EXT2
file system consistency checker (e2fsck.static). The EXT2 utilities
were written by Theodore Ts'o <tytso@mit.edu> and Remy Card
<card@masi.ibp.fr>.
Sources were obtained from http://sourceforge.net/projects/e2fsprogs

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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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1.603 libcom_err 1.42.9 :7.el7

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Index: tdbsa/tdb.c
===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
/*
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
-
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# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image::$(BSD_LIB)

$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS) $(OBJ))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) `echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) $(BSD_LIB)
$(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)

install-strip: install

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)
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Gadi Oxman, August 1995

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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

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Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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23-June-2007

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#!/bin/sh

find . -type f ! -name \*~ ! -exec grep -q Begin-Header \{\} ; -print \
| grep -v ^./build

This is the Debian GNU/Linux prepackaged version of the Common Error
Description library. It is currently distributed together with the EXT2 file
system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>,
from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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file system consistency checker (e2fsck.static). The EXT2 utilities
were written by Theodore Ts'o <tytso@mit.edu> and Remy Card
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This package was put together by Yann Dirson <dirson@debian.org>,
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Theodore Ts'o
23-June-2007

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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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--------------------------------------------------------------------------------

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[This is the first released version of the library GPL. It is
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

# This is a Makefile stub which handles the creation of BSD shared libraries.
# In order to use this stub, the following makefile variables must be defined.

# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)

all:: image

real-subdirs:: Makefile
@echo " MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:$ (BSD_LIB)

$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f $(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \ 
`echo $(my_dir) | sed -e '`;lib/;`/$(BSD_LIB) $(BSD_LIB))

install-slibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \ 
$(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)

install-slibs-strip: install-slibs

uninstall-slibs uninstall::
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ..$(BSD_LIB)

Index: tdbsa/tdb.c
===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
/*
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
-
- Copyright (C) Andrew Tridgell 2005
+ Copyright (C) Andrew Tridgell 1999-2005
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1.605 libcom_err-devel 1.42.9 :13.el7

1.605.1 Available under license:

This is the Debian GNU/Linux prepackaged version of the ss command-line interface parsing library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

From the original distribution:

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This is the Debian GNU/Linux prepackaged version of the EXT2 file system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were written by Theodore Ts' o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

Sources were obtained from http://sourceforge.net/projects/e2fsprogs

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This is the Debian GNU/Linux prepackaged version of the static EXT2
file system consistency checker (e2fsck.static). The EXT2 utilities
were written by Theodore Ts'o <tytso@mit.edu> and Remy Card
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#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image: $(BSD_LIB)

$(BSD_LIB): $(OBJS)

$(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
$(cd ..; $(LN) $(LINK_BUILD_FLAGS) `echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)

@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$((INSTALL_PROGRAM) $(BSD_LIB) \ $DESTDIR$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)

install-strip: install

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../*.$(BSD_LIB)

1.606 libconfig 1.4.9 :5.el7

1.606.1 Available under license :

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Version 2.1, February 1999

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6,
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6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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1.608 libconfig-devel 1.4.9-5

1.609 libcroco 0.6.8 :5.el7
1.609.1 Available under license :

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Version 2, June 1991

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[This is the first released version of the library GPL. It is
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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.
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   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must
be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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If distribution of object code is made by offering access to copy
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5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.
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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.611 libcroco 0.6.12 :4.el7

1.611.1 Available under license :

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Because of this blurred distinction, using the ordinary General
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concluded that weaker conditions might promote sharing better.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.
6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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1.612 libcurl 7.37.0 :42.1

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Summary: A utility for getting files from remote servers (FTP, HTTP, and others)
Name: curl
Version: 7.19.7
Release: 37%{?dist}
License: MIT
Group: Applications/Internet
Source: http://curl.haxx.se/download/%{name}-%{version}.tar.lzma

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1.614 libcurl 7.61.1-11

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1.616 libcurl-devel 7.37.0-42

1.617 libdaemon 0.14 :7.el7
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1.621 libdrm 2.4.91 :3.el7.centos

1.622 libdrm 2.4.91-3

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1.625 libedit-devel 3.0-12.20121213cvs.el7
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In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work
which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library’s complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses
the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

e) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
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use both them and the Library together in an executable that you
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When a program is linked with a library, whether statically or using
a shared library, the combination of the two is legally speaking a
combined work, a derivative of the original library. The ordinary
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entire combination fits its criteria of freedom. The Lesser General
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You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.
However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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Version 3.1, 31 March 2009

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Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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materials or that you have already sent this user a copy.

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   b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
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<!DOCTYPE html
PUBLIC "-//W3C//DTD XTHML 1.0 Strict//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" lang="en">
<head>
<link rel="stylesheet" type="text/css" href="styles.css" />
<title>uthash: a hash table for C structures</title>
</head>
<body>
<div id="banner">
<img src="banner.png" alt="uthash: a hash table for C structures" />
</div>
</body>
</html>
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However, unrestricted linking of non-free programs would deprive the
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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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1.647 libgnome-keyring 3.12.0-1
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      in the event an application does not supply such function or
      table, the facility still operates, and performs whatever part of
      its purpose remains meaningful.

      (For example, a function in a library to compute square roots has
      a purpose that is entirely well-defined independent of the
      application. Therefore, Subsection 2d requires that any
      application-supplied function or table used by this function must
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c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of
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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.
You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.
7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
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You should also get your employer (if you work as a programmer) or your
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That's all there is to it!

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Version 2, June 1991

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

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Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.
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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.
3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.
If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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Version 2.1, February 1999

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If distribution of object code is made by offering access to copy
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5. A program that contains no derivative of any portion of the
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Section 6 states terms for distribution of such executables.

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If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
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with the Library, with the complete machine-readable "work that
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b) Use a suitable shared library mechanism for linking with the
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copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
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the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at
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specified in Subsection 6a, above, for a charge no more
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threshold for this to be true is not precisely defined by law.
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@end enumerate

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@end iftex
@ifinfo
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@page

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   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses
the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)

These requirements apply to the modified work as a whole. If
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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception,
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* m4/ax_func_which_gethostbyname_r.m4

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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dossersrc.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk)
subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code.
Jesper Peterson (jep@mtiame.mtia.oz.au), Michel Schinz, and
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Thomas Funke (thf@zelator.in-berlin.de(?)) and
Brian D. Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Jansen (jansen@parc.xerox.com) supplied the SunOS dynamic loader
speciﬁc code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News speciﬁc code. Al Dosser provided Alpha/OSF/1 code. He and
Dave Detlefs (detlefs@src.dec.com) also provided several generic bug ﬁxes.
Alistair G. Crooks (agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn’t
made it into the released version of the collector, yet.)

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"Source code" for a work means the preferred form of the work for
making modifications to it. For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the
Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
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changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
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b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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a) Accompany the work with the complete corresponding
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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dossor (dossor@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?) ) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dossor provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks (agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)

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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run
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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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'Gnomovision' (which makes passes at compilers) written by James Hacker.

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1.658 libhbaapi 2.2 :14.el6

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</body>
</html>

1.667 libIDL 0.8.14 :8.el7
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Version 2, June 1991

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[This is the first released version of the library GPL. It is
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Preamble

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a
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However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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1.672 libjpeg-turbo 1.2.90 :6.el7

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import os
import sys
import re

def warn(fname, ln, msg):
    print '%s: %d: %s' % (fname, ln + 1, msg)

def indicates_license(line):
    return 'Copyright' in line or 'COPYRIGHT' in line or 'License' in line

# Check a comment for boilerplate violations. Return true if the comment
# is a license statement.

def check_comment(comment, fname, ln, code_seen, nonlicense_seen):
    text_seen = False
    is_license = False
    for line in comment:
        if not is_license and indicates_license(line):
            is_license = True
        if text_seen:
            warn(fname, ln, 'License begins after first line of comment')
        elif code_seen:
            warn(fname, ln, 'License after code')
        elif nonlicense_seen:
            warn(fname, ln, 'License after non-license comments')
        break
        # DB2 licenses start with '/*-' and we don't want to change them.
        if line != '' and line != '-':
            text_seen = True
    return is_license
def check_file(lines, fname):
    # Skip emacs mode line if present.
    ln = 0
    if '-*- mode: c;' in lines[ln]:
        ln += 1

    # Check filename comment if present.
    m = re.match(r'/\* (.*) \*/', lines[ln])
    if m:
        if m.group(1) != fname:
            warn(fname, ln, 'Wrong filename in comment')
        ln += 1

    # Scan for license statements.
    in_comment = False
    code_seen = False
    nonlicense_seen = False
    for line in lines[ln:]:
        # Strip out whitespace and comments contained within a line.
        if not in_comment:
            line = re.sub(r'/\*.*?\*/', '', line)
            line = line.strip()
        if not in_comment and '/*' in line:
            (line, sep, comment_part) = line.partition('/*')
            comment = [comment_part.strip()]
            comment_starts_at = ln
            in_comment = True
        elif in_comment and '*/' not in line:
            comment.append(line.lstrip('*').lstrip())
        elif in_comment:
            (comment_part, sep, line) = line.partition('*/')
            comment.append(comment_part.strip())
        is_license = check_comment(comment, fname, comment_starts_at,
                              code_seen, nonlicense_seen)
        nonlicense_seen = nonlicense_seen or not is_license
        in_comment = False
        elif line.strip() != '':
            code_seen = True
        ln += 1

    for fname in sys.argv[1:]:
        if fname.startswith('./ '):
            fname = fname[2:]
        f = open(fname)
        lines = f.readlines()
f.close()
check_file(lines, fname)

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"src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
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lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c
and the initial implementation of incremental propagation, including
the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c

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class="n">g_inquire_context</span><span class="o">.</span><span class="n">c</span>  
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<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_relate_cred</span><span class="o">.</span><span class="n">c</span>  
<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_relate_name</span><span class="o">.</span><span class="n">c</span>  
<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_relate_oid_set</span><span class="o">.</span><span class="n">c</span>  
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<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span class="n">g_unrelate_name</span><span class="o">.</span><span class="n">c</span>  
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and the initial implementation of incremental propagation, including
the following new or changed files:

- include/iprop_hdr.h
- kadmin/server/ipropd_svc.c
- lib/kdb/iprop.x
- lib/kdb/kdb_convert.c
- lib/kdb/kdb_log.c
- lib/kdb/kdb_log.h
- lib/krb5/error_tables/kdb5_err.et
- slave/kpropd_rpc/kpropd_rpc.c
- slave/kproplog/kproplog.c

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in
``src/lib/gssapi``, including the following files:

.. parsed-literal::

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including the following new or changed files:

.. parsed-literal::

include/iprop_hdr.h
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import os
import sys
import re
def warn(fname, ln, msg):
    print '%s: %d: %s' % (fname, ln + 1, msg)

def indicates_license(line):
    return 'Copyright' in line or 'COPYRIGHT' in line or 'License' in line

# Check a comment for boilerplate violations. Return true if the comment
# is a license statement.
check_comment(comment, fname, ln, code_seen, nonlicense_seen):
text_seen = False
is_license = False
for line in comment:
    if not is_license and indicates_license(line):
        is_license = True
    if text_seen:
        warn(fname, ln, 'License begins after first line of comment')
    elif code_seen:
        warn(fname, ln, 'License after code')
    elif nonlicense_seen:
        warn(fname, ln, 'License after non-license comments')
    break
# DB2 licenses start with '/*-' and we don't want to change them.
if line != '' and line != '-':
    text_seen = True
return is_license

def check_file(lines, fname):
    # Skip emacs mode line if present.
    ln = 0
    if '-*- mode: c;' in lines[ln]:
        ln += 1
    # Check filename comment if present.
    m = re.match(r'/\* ([^ \]*)( - .*)? \*/', lines[ln])
    if m:
        if m.group(1) != fname:
            warn(fname, ln, 'Wrong filename in comment')
        ln += 1
    # Check for license statements.
in_comment = False
code_seen = False
nonlicense_seen = False
for line in lines[ln:]:
    # Strip out whitespace and comments contained within a line.
    if not in_comment:
        line = re.sub(r'//.*?\n', '', line)
line = line.strip()

if not in_comment and '/*' in line:
    (line, sep, comment_part) = line.partition('*/')
    comment = [comment_part.strip()]
    comment_starts_at = ln
    in_comment = True
elif in_comment and '*/' not in line:
    comment.append(line.lstrip('*').lstrip())
elif in_comment:
    (comment_part, sep, line) = line.partition('*/')
    comment.append(comment_part.strip())
    is_license = check_comment(comment, fname, comment_starts_at, code_seen, nonlicense_seen)
    nonlicense_seen = nonlicense_seen or not is_license
    in_comment = False
elif line.strip() != ':
    code_seen = True
    ln += 1

for fname in sys.argv[1:]:
    if fname.startswith('./ '):
        fname = fname[2:]
    f = open(fname)
    lines = f.readlines()
    f.close()
    check_file(lines, fname)

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lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
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lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
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kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
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lib/gssapi/mechglue/g_accept_sec_context
g_accept_sec_context.c

lib/gssapi/mechglue/g_acquire_cred
g_acquire_cred.c

lib/gssapi/mechglue/g_canon_name
g_canon_name.c

lib/gssapi/mechglue/g_compare_name
g_compare_name.c

lib/gssapi/mechglue/g_context_time
g_context_time.c

lib/gssapi/mechglue/g_delete_sec_context
g_delete_sec_context.c

lib/gssapi/mechglue/g DSP_NAME

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lib/gssapi/mechglue/g DSP_STATUS

g_DSP_STATUS.c
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lib/kdb/iprop.x
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   lib/gssapi/mechglue/g_accept_sec_context.c
   lib/gssapi/mechglue/g_acquire_cred.c
   lib/gssapi/mechglue/g_canon_name.c
   lib/gssapi/mechglue/g_compare_name.c
   lib/gssapi/mechglue/g_context_time.c
   lib/gssapi/mechglue/g_delete_sec_context.c
   lib/gssapi/mechglue/g_dsp_name.c
   lib/gssapi/mechglue/g_dsp_status.c
   lib/gssapi/mechglue/g_dup_name.c
   lib/gssapi/mechglue/g_exp_sec_context.c
   lib/gssapi/mechglue/g_export_name.c
   lib/gssapi/mechglue/g_glue.c
   lib/gssapi/mechglue/g_imp_name.c
   lib/gssapi/mechglue/g_imp_sec_context.c
   lib/gssapi/mechglue/g_init_sec_context.c
   lib/gssapi/mechglue/g_inquire.c
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.. parsed-literal::

   include/iprop_hdr.h
   kadmin/server/ipropd_svc.c
   lib/kdb/iprop.x
   lib/kdb/kdb_convert.c
   lib/kdb/kdb_log.c
   lib/kdb/kdb_log.h
   lib/krb5/error_tables/kdb5_err.et
   slave/kpropd_rpc.c
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1.679 libmnl 1.0.3 :7.el7

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to
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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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1.681 libmount 2.32.2 :26.el7

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1.682 libmount 2.23.2-59.el7

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square
root function must still compute square roots.)

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
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5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
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directing the user to the copy of this License. Also, you must do one
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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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      (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application.  Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
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1.694 libnetfilter_cthelper 1.0.0 :8.el7

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```
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```

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```
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`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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1.698 libnetfilter_queue 1.0.2 :1.el7

1.698.1 Available under license :

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1.700 libnfnetlink 1.0.1 :4.el7

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1.701 libnfnetlink-devel 1.0.1-4.el7

1.702 libnfsidmap 0.25 :19.el7

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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.
We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work
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"Source code" for a work means the preferred form of the work for
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above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices
stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no
charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a
table of data to be supplied by an application program that uses
the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
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a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
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5. A program that contains no derivative of any portion of the
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However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
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When a "work that uses the Library" uses material from a header file
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6. As an exception to the Sections above, you may also combine or
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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.
6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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For an executable, the required form of the "work that uses the
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.
When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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b) Use a suitable shared library mechanism for linking with the
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d) If distribution of the work is made by offering access to copy
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For an executable, the required form of the "work that uses the
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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*/
#include <pcap/bpf.h>

1.716 libpcap-devel 2.22-9

1.717 libpciaccess 0.13.4 :2.el7

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1.718 libpciaccess 0.14 :1.0

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1.719 libpipeline 1.2.3 :3.el7

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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.
For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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   (For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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librdkafka - Apache Kafka C driver library

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The reason we have a separate public license for some libraries is that
they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)

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themselves, then this License, and its terms, do not apply to those
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this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

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exercise the right to control the distribution of derivative or
collective works based on the Library.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit
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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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1.732 librsvg2 2.26.0 :5.el6_1.1.0.1.centos

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any
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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.
In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.
5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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1.738 libsecret 0.18.6-1.el7

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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1.745 libsemanage 2.5 :14.el7

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This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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directing the user to the copy of this License. Also, you must do one
of these things:

a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
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will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
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c) Accompany the work with a written offer, valid for at
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d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

e) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

It may happen that this requirement contradicts the license
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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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1.752 libsmartcols 2.23.2 :59.el7_6.1
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------------------------------------------------------------------------------

tools/shhopt.c, tools/shhopt.h:

Title: shhopt - library for parsing command line options.
Version: 1.1.2
Entered-date: 23MAR97
Description: C-functions for parsing command line options, both
    traditional one-character options, and GNU’ish
    --long-options.
Keywords: programming, library, lib, commandline, options
Author: s.h.huseby@usit.uio.no (Sverre H. Huseby)
Primary-site: http://www.ifi.uio.no/~sverrehu/pub-unix/
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------------------------------------------------------------------------------

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-----------------------------------------------------------------------------

tools/shhopt.c, tools/shhopt.h:

Title: shhopt - library for parsing command line options.
Version: 1.1.2
Entered-date: 23MAR97
Description: C-functions for parsing command line options, both
traditional one-character options, and GNU'ish
--long-options.
Keywords: programming, library, lib, commandline, options
Author: s.h.huseby@usit.uio.no (Sverre H. Huseby)
Primary-site: http://www.ifi.uio.no/~sverrehu/pub-unix/
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1.755 libsndfile 1.0.25-10

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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.
For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.
When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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c) If distribution of the work is made by offering access to copy
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d) Verify that the user has already received a copy of these
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components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

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accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
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<signature of Ty Coon>, 1 April 1990
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Gadi Oxman, August 1995

---------------------------------------------------------------------------

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You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

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`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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#
# This is a Makefile stub which handles the creation of BSD shared libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:: $(BSD_LIB)

$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) `echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \ $(DESTDIR)$BSDLIB_INSTALL_DIR/$(BSD_LIB) \ -$(LDCONFIG)
install-strip: install

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)/$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)
/*

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*/

Index: tdba/tdb.c

===================================================================
--- tdba.orig/tdb.c
+++ tdba/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
 Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
 /*
 */
-Unix SMB/CIFS implementation.
+trivial database library - standalone version

- trivial database library - private includes
-
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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003.

It is part of the main e2fsprogs distribution, which can be found at:

http://sourceforge.net/projects/e2fsprogs

Upstream Author: Theodore Ts'o <tytso@mit.edu>

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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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1.765 libstdc++ 4.8.5 :36.el7_6.2

1.766 libstdc++-devel 4.8.5-36.el7

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.
6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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1.783 Libtool 2.4.2-22

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1.785 libtool 2.4.2 :7.fc18

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Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.
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@end example
under certain conditions; type @samp{show c} for details.
@end smallexample

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We
concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.
Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)
These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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Preamble

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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a
derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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   You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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Initialize empty image
f1c9645dbc14efddc7d8a322685f26eb bsd.img
Create new DOS partition table
57e721e38d1266c2df055067e18f2cf9 bsd.img

---layout---------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

<table>
<thead>
<tr>
<th>Device</th>
<th>Boot</th>
<th>Start</th>
<th>End</th>
<th>Blocks</th>
<th>Id</th>
<th>System</th>
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<td></td>
</tr>
</tbody>
</table>

Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout--------
__ts_dev__. 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

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</tr>
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<tbody>
<tr>
<td><strong>ts_dev</strong>.1</td>
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<td>4095</td>
<td>1024</td>
<td>83</td>
<td>Linux</td>
<td></td>
</tr>
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<td></td>
<td></td>
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</table>

Create 2st primary partition
1bebf87248e056e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8dff51a88a045db233418dd73fbd bsd.img

---layout--------
__ts_dev__. 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

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<td>4095</td>
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</table>

Create default BSD
2e1cee529cb59c9341afe0443f196a1 bsd.img

---layout--------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):
BSD disklabel command (m for help):
4 partitions:
#   start   end   size   fs_type  [fsize bsize   cpg]
c: 4096  20479  16384   unused   0     0
  d:  0  16064  16065   unused   0     0

BSD disklabel command (m for help):

---layout----------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
#   start   end   size   fs_type  [fsize bsize   cpg]
a: 4096 6144 2049   4.2BSD   0     0     0
c: 4096 20479 16384   unused   0     0
d:  0 16064 16065   unused   0     0

BSD disklabel command (m for help):

---layout----------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):

0 unused 5 4.1BSD 9 4.4LFS d boot
1 swap 6 Eighth Edition a unknown e ADOS
2 Version 6 7 4.2BSD b HPFS f HFS
3 Version 7 8 MS-DOS c ISO-9660 10 AdvFS
4 System V

BSD disklabel command (m for help):
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__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device Boot Start End Blocks Id System
-------------------
Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout--------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device Boot Start End Blocks Id System
__ts_dev__1 2048 4095 1024 83 Linux
-------------------
Create 2st primary partition
1bebfb7248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8df51a88a045db233418dd73fbe bsd.img

---layout--------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

<table>
<thead>
<tr>
<th>Device</th>
<th>Boot</th>
<th>Start</th>
<th>End</th>
<th>Blocks</th>
<th>Id</th>
<th>System</th>
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<tr>
<td>__ts_dev__1</td>
<td>1</td>
<td>2048</td>
<td>4095</td>
<td>1024</td>
<td>83</td>
<td>Linux</td>
</tr>
<tr>
<td>__ts_dev__2</td>
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<td>4096</td>
<td>20479</td>
<td>8192</td>
<td>a5</td>
<td>FreeBSD</td>
</tr>
</tbody>
</table>

Create default BSD
2e1cee529cb59c9341afe0443f196a1 bsd.img

---layout-------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
# start end size fstype [fsize bsize cpg]
c: 4096 20479 16384 unused 0 0
d: 0 16064 16065 unused 0 0

BSD disklabel command (m for help):
Command (m for help):

----------

b5c121c2091b2ff26b880551feac7112 bsd.img

---layout-------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
# start end size fstype [fsize bsize cpg]
a: 4096 6144 2049 4.2BSD 0 0 0
c: 4096 20479 16384 unused 0 0
BSD disk label command (m for help):
Command (m for help):

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disk label command (m for help):
0 unused  5 4.1BSD  9 4.4LFS  d boot
1 swap  6 Eighth Edition  a unknown  e ADOS
2 Version 6  7 4.2BSD  b HPFS  f HFS
3 Version 7  8 MS-DOS  c ISO-9660  10 AdvFS
4 System V

BSD disk label command (m for help):
size: 8388608, sector size: 512, PT: dos, offset: 446, id=0x8f8378c0
---
#1:  32  7648  0x83
#2:  7680  8704  0xa5
#5:  7936  4864  0x7 (freebsd)
#6: 12544  3584  0x7 (freebsd)

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1.812 libwayland-cursor 1.15.0-1

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/* lib/font/fontfile/gunzip.c
   written by Mark Eichin <eichin@kitten.gen.ma.us> September 1996.
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*
***********************************************************************
*
* Private functions, types, etc. used for callback functions.
*
* The ref pointer is an opaque type and should remain as such.
* Private data must only be accessible through the getter and
* setter functions.
*
***********************************************************************

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1.844 libxml2 2.9.1-6

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1.846 libXpm 3.5.12 :1.el7

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(XPM - X PixMap format version 2 & 3)

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1.853 libxshmfence 1.2 :1.el7

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1.860 libXxf86vm 1.1.3 :2.1.el7

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1.861 libXxf86vm 1.1.4 :1.el7.centos

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1.862 libyaml 0.1.4 :11.el7_0

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1.863 libyml 0.1.6 :1.el6
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Appendix: How to Apply These Terms to Your New Libraries

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
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Linus Torvalds

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c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

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Ty Coon, President of Vice

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License
Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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"Source code" for a work means the preferred form of the work for
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   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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Michael Hunold <m.hunold@gmx.de>
for the initial saa7146 driver and its recent overhaul

Christian Theiss
for his work on the initial Linux DVB driver

Marcus Metzler <mocm@metzlerbros.de>
Ralph Metzler <rjkm@metzlerbros.de>
for their continuing work on the DVB driver

Michael Holzt <kju@debian.org>
for his contributions to the dvb-net driver

Diego Picciani <d.picciani@novacomp.it>
for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login
procedure and CyberLogin is no longer used.)

Martin Schaller <martin@smurf.franken.de>
for patching the cable card decoder driver

Klaus Schmidinger <Klaus.Schmidinger@cadsoft.de>
for various fixes regarding tuning, OSD and CI stuff and his work on VDR

Steve Brown <sbrown@cortland.com>
for his AFC kernel thread

Christoph Martin <martin@uni-mainz.de>
for his LIRC infrared handler

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Florian Schirmer <jolt@tuxbox.org>
Ronny Strutz <3des@elitedvb.de>
Wolfram Joost <dbox2@frokaschwei.de>
...and all the other dbox2 people
for many bugfixes in the generic DVB Core, frontend drivers and
their work on the dbox2 port of the DVB driver

Oliver Endriss <o.endriss@gmx.de>
for many bugfixes
Andrew de Quincey <adq_dvb@lidskialf.net>
for the tda1004x frontend driver, and various bugfixes

Peter Schildmann <peter.schildmann@web.de>
for the driver for the Technisat SkyStar2 PCI DVB card

Vadim Catana <skystar@moldova.cc>
Roberto Ragusa <r.ragusa@libero.it>
Augusto Cardoso <augusto@earhil.net>
for all the work for the FlexCopII chipset by B2C2,Inc.

Davor Emard <emard@softhome.net>
for his work on the budget drivers, the demux code,
the module unloading problems, ...

Hans-Frieder Vogt <shvogt@arcor.de>
for his work on calculating and checking the crc's for the
TechnoTrend/Hauppauge DEC driver firmware

Michael Dreher <michael@5dot1.de>
Andreas 'randy' Weinberger
for the support of the Fujitsu-Siemens Activy budget DVB-S

Kenneth Aafly <ke-aa@frisurf.no>
for adding support for Typhoon DVB-S budget card

Ernst Peinlich <e.peinlich@inode.at>
for tuning/DiSEqC support for the DEC 3000-s

Peter Beutner <p.beutner@gmx.net>
for the IR code for the ttusb-dec driver

Wilson Michaels <wilsonmichaels@earthlink.net>
for the lgdt330x frontend driver, and various bugfixes

Michael Krufky <smkruflky@m1k.net>
for maintaining v4l/dvb inter-tree dependencies

Taylor Jacob <rtjacob@earthlink.net>
for the nxt2002 frontend driver

Jean-Francois Thibert <jeanfrancois@sagetv.com>
for the nxt2004 frontend driver

Kirk Lapray <kirk.lapray@gmail.com>
for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
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            || strcmp(license, "GPL and additional rights") == 0
            || strcmp(license, "Dual BSD/GPL") == 0
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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com) */
/* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk) */
/* */
/* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc. */
/* http://www.hypermall.com/ */
/* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY */
/* interrupts us (except possibly for removal/insertion of the cable?) */
/* 10/4/97 - began heavy inline documentation of the code. Corrected typos */
/* and spelling mistakes. */
* 10/5/97 - added code to handle PHY interrupts, disable PHY on loss of link, and correctly re-enable PHY when link is re-established. (put back CFG_PHYIE)

* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.

* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997

* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.

* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers as needed. This means that data must always be copied to create the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire SDU, and leave <small_buffer_data> bytes empty at the start. Then copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large buffers. This is done by 2 things:
  1) skb->destructor / skb->atm.recycle_buffer combined, allow nicstar_free_rx_skb to be called to recycle large data buffers
  2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation details.

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* M. Welsh, 6 July 1996
*
*
*
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The following XC500 firmware file "dvb-fe-xc5000-1.6.114.fw" was created based on "xc5000_firmwares_32000Khz.h".

Firmware provided as part of an XC5000 Linux developers kit by Brian Mathews <bmathews@xceive.com> to Devin Heitmueller <dheitmueller@linuxtv.org> on July 1, 2009.

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The following XC4000 firmware file "dvb-fe-xc4000-1.4.1.fw" was created based on version 1.4 of "xc4000_firmwares.h".

Firmware provided as part of an XC4000 Linux developers kit by Brian Mathews <bmathews@xceive.com> to Devin Heitmueller <dheitmueller@kernellabs.org> on July 1, 2009.

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===============================================================================
3.

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*
*===================================================================
*
* File Name list: aes.h, aes_locl.h

===============================================================================

4. /* crypto/aes/aes_core.c -*- mode:C; c-file-style: "eay" -*. */
   /*
   * rijndael-alg-fst.c
   * 
   * @version 3.0 (December 2000)
   * 
   * Optimised ANSI C code for the Rijndael cipher (now AES)
   * 
   * @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
   * @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
   * @author Paulo Barreto <paulo.barreto@terra.com.br>
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   */
   File: aes_core.c

===============================================================================

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Dr B. R. Gladman <brg@gladman.uk.net> 1st June 2001.

This is an implementation of the AES encryption algorithm (Rijndael) designed by Joan Daemen and Vincent Rijmen. This version is designed to provide both fixed and dynamic block and key lengths and can also run with either big or little endian internal byte order.

NOTE: Input block and key lengths are given in terms of the lengths of the byte arrays involved, the legal values being 16, 24 and 32.

A. THE CIPHER INTERFACE

byte          (an unsigned 8-bit type)
word          (an unsigned 32-bit type)
aes_ret:      (a signed 16 bit type for function return values)
aes_good     (value != 0, a good return)
aes_bad      (value == 0, an error return)
enum aes_key: (encryption direction)
    enc      (set key for encryption)
    dec      (set key for decryption)
    both     (set key for both)
class or struct aes  (structure for context)

C subroutine calls:

aes_ret set_blk(const word block_length, aes *cx) (variable block size)
aes_ret set_key(const byte key[], const word key_length,
                const enum aes_key direction, aes *cx)
aes_ret encrypt(const byte input_blk[], byte output_blk[], const aes *cx)
aes_ret decrypt(const byte input_blk[], byte output_blk[], const aes *cx)

IMPORTANT NOTE: If you are using this C interface and your compiler does not set the memory used for objects to zero before use, you will need to ensure that cx.mode is set to zero before using the C subroutine calls.

C++ aes class subroutines:

aes_ret set_blk(const word block_length)  (variable block size)
aes_ret set_key(const byte key[], const word key_length,
const aes_key direction)
aes_ret encrypt(const byte input_blk[], byte output_blk[]) const
aes_ret decrypt(const byte input_blk[], byte output_blk[]) const

The block length inputs to set_block and set_key are in numbers of BYTES, not bits. The calls to subroutines must be made in the above order but multiple calls can be made without repeating earlier calls if their parameters have not changed. If the cipher block length is variable but set_blk has not been called before cipher operations a value of 16 is assumed (that is, the AES block size). In contrast to earlier versions the block and key length parameters are now checked for correctness and the encryption and decryption routines check to ensure that an appropriate key has been set before they are called.

B. BYTE ORDER WITHIN 32 BIT WORDS

The fundamental data processing units in Rijndael are 8-bit bytes. The input, the output and the key input are all enumerated arrays of bytes in which bytes are numbered starting at zero and increasing to one less than the number of bytes in the array in question. When these inputs and outputs are considered as bit sequences, the n'th byte contains bits 8n to 8n+7 of the sequence with the lower numbered bit mapped to the most significant bit within the byte (i.e. that having a numeric value of 128). However, Rijndael can be implemented more efficiently using 32-bit words to process 4 bytes at a time provided that the order of bytes within words is known. This order is called big-endian if the lowest numbered bytes in words have the highest numeric significance and little-endian if the opposite applies. This code can work in either order irrespective of the native order of the machine on which it runs.

The byte order used internally is set by defining INTERNAL_BYTE_ORDER whereas the order for all inputs and outputs is specified by defining EXTERNAL_BYTE_ORDER, the only purpose of the latter being to determine if a byte order change is needed immediately after input and immediately before output to account for the use of a different internal byte order.

In almost all situations both of these defines will be set to the native order of the processor on which the code is to run but other settings may sometimes be useful in special circumstances.
C. COMPILATION

To compile AES (Rijndael) for use in C code
a. Exclude the AES_DLL define inaes.h
b. Exclude the AES_IN_CPP define inaes.h

To compile AES (Rijndael) for use in C++ code
a. Exclude the AES_DLL define inaes.h
b. Include the AES_IN_CPP define inaes.h

To compile AES (Rijndael) in C as a Dynamic Link Library
a. Include the AES_DLL define inaes.h
b. Compile the DLL. If using the test files, excludeaes.c from
   the test build project and compile it with the same defines
   as used for the DLL (ensure that the DLL path is correct)

D. CONFIGURATION OPTIONS (see also aes.c)

1. define BLOCK_SIZE to set the cipher block size (16, 24 or 32) or
   leave this undefined for dynamically variable block size (this will
   result in much slower code).
2. set AES_IN_CPP to use the code from C++ rather than C
3. set AES_DLL if AES (Rijndael) is to be compiled to a DLL
4. set INTERNAL_BYTE_ORDER to one of the above constants to set the
   internal byte order (the order used within the algorithm code)
5. set EXTERNAL_BYTE_ORDER to one of the above constants to set the byte
   order used at the external interfaces for the input, output and key
   byte arrays.

IMPORTANT NOTE: BLOCK_SIZE is inBYTES: 16, 24, 32 or undefined for aes.c
   and 16, 20, 24, 28, 32 or undefined for aes++.c. If left undefined a
   slower version providing variable block length is compiled

#define BLOCK_SIZE 16

Define AES_IN_CPP if you intend to use the AES C++ class rather than the
C code directly.

#define AES_IN_CPP

Define AES_DLL if you wish to compile the code to produce a Windows DLL

#define AES_DLL
File: aes.h

FILE:Conftest.py
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#
#
# The purpose of this module is to define how a check is to be performed.
# Use one of the Check...() functions below.
#
#
# A context class is used that defines functions for carrying out the tests,
# logging and messages. The following methods and members must be present:
# # context.Display(msg) Function called to print messages that are normally
# # displayed for the user. Newlines are explicitly used.
# # The text should also be written to the logfile!
# #
# context.Log(msg) Function called to write to a log file.
# #
# context.BuildProg(text, ext)
# # Function called to build a program, using "ext" for the
# # file extension. Must return an empty string for
# # success, an error message for failure.
# # For reliable test results building should be done just
# # like an actual program would be built, using the same
# # command and arguments (including configure results so
# # far).
# #
# context.CompileProg(text, ext)
# # Function called to compile a program, using "ext" for
# # the file extension. Must return an empty string for
# # success, an error message for failure.
# # For reliable test results compiling should be done just
# # like an actual source file would be compiled, using the
# # same command and arguments (including configure results
# # so far).
# #
# context.AppendLIBS(lib_name_list)
# # Append "lib_name_list" to the value of LIBS.
# # "lib_name_list" is a list of strings.
# Return the value of LIBS before changing it (any type
can be used, it is passed to SetLIBS() later.)
#
# context.PrependLIBS(lib_name_list)
# Prepend "lib_name_list" to the value of LIBS.
# "lib_name_list" is a list of strings.
# Return the value of LIBS before changing it (any type
can be used, it is passed to SetLIBS() later.)
#
# context.SetLIBS(value)
# Set LIBS to "value". The type of "value" is what
# AppendLIBS() returned.
# Return the value of LIBS before changing it (any type
can be used, it is passed to SetLIBS() later.)
#
# context.headerfilename
# Name of file to append configure results to, usually
# "confdefs.h".
# The file must not exist or be empty when starting.
# Empty or None to skip this (some tests will not work!).
#
# context.config_h  (may be missing). If present, must be a string, which
# will be filled with the contents of a config_h file.
#
# context.vardict       Dictionary holding variables used for the tests and
# stores results from the tests, used for the build
# commands.
# Normally contains "CC", "LIBS", "CPPFLAGS", etc.
#
# context.havedict      Dictionary holding results from the tests that are to
# be used inside a program.
# Names often start with "HAVE_". These are zero
# (feature not present) or one (feature present). Other
# variables may have any value, e.g., "PERLVERSION" can

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Atheros carl9170 firmware - used by the ar9170 wireless device

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WIS GO7007SB Public Linux Driver
0. OVERVIEW AND LICENSING/DISCLAIMER

This driver kit contains Linux drivers for the WIS GO7007SB multi-format video encoder. Only kernel version 2.6.x is supported. The video stream is available through the Video4Linux2 API and the audio stream is available through the ALSA API (or the OSS emulation layer of the ALSA system).

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1. SYSTEM REQUIREMENTS

This driver requires Linux kernel 2.6. Kernel 2.4 is not supported. Using kernel 2.6.10 or later is recommended, as earlier kernels are known to have unstable USB 2.0 support.

A fully built kernel source tree must be available. Typically this will be linked from "/lib/modules/<KERNEL VERSION>/build" for convenience. If this link does not exist, an extra parameter will need to be passed to the `make` command.

All vendor-built kernels should already be configured properly. However, for custom-built kernels, the following options need to be enabled in the
Additionally, to use the example application, the following options need to be enabled in the ALSA section:

```
CONFIG_SND_MIXER_OSS     - OSS Mixer API
CONFIG_SND_PCM_OSS       - OSS PCM (digital audio) API
```

The hotplug scripts, along with the fxload utility, must also be installed. These scripts can be obtained from <http://linux-hotplug.sourceforge.net/>.

Hotplugging is used for loading firmware into the Cypress EZ-USB chip using fxload and for loading firmware into the driver using the firmware agent.

2. COMPILING AND INSTALLING THE DRIVER

Most users should be able to compile the driver by simply running:

```
$ make
```

in the top-level directory of the driver kit. First the kernel modules will be built, followed by the example applications.

If the build system is unable to locate the kernel source tree for the currently-running kernel, or if the module should be built for a kernel other than the currently-running kernel, an additional parameter will need to be passed to make to specify the appropriate kernel source directory:

```
$ make KERNELSRC=/usr/src/linux-2.6.10-custom3
```

Once the compile completes, the driver and firmware files should be installed by running:

```
$ make install
```
The kernel modules will be placed in "/lib/modules/<KERNEL VERSION>/extra" and the firmware files will be placed in the appropriate hotplug firmware directory, usually /lib/firmware. In addition, USB maps and scripts will be placed in /etc/hotplug/usb to enable fxload to initialize the EZ-USB control chip when the device is connected.

3. PAL/SECAM TUNER CONFIGURATION (TV402U-EU only)

The PAL model of the Plextor ConvertX TV402U may require additional configuration to correctly select the appropriate TV frequency band and audio subchannel.

Users with a device other than the Plextor ConvertX TV402U-EU should skip this section.

The wide variety of PAL TV systems used in Europe requires that additional information about the local TV standards be passed to the driver in order to properly tune TV channels. The two necessary parameters are (a) the PAL TV band, and (b) the audio subchannel format in use.

In many cases, the appropriate TV band selection is passed to the driver from applications. However, in some cases, the application only specifies that the driver should use PAL but not the specific information about the appropriate TV band. To work around this issue, the correct TV band may be specified in the "force_band" parameter to the wis-sony-tuner module:

<table>
<thead>
<tr>
<th>TV band</th>
<th>force_band</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAL B/G</td>
<td>B</td>
</tr>
<tr>
<td>PAL I</td>
<td>I</td>
</tr>
<tr>
<td>PAL D/K</td>
<td>D</td>
</tr>
<tr>
<td>SECAM L</td>
<td>L</td>
</tr>
</tbody>
</table>

If the "force_band" parameter is specified, the driver will ignore any TV band specified by applications and will always use the band provided in the module parameter.

The other parameter that can be specified is the audio subchannel format. There are several stereo audio carrier systems in use, including NICAM and three varieties of A2. To receive audio broadcast on one of these stereo carriers, the "force_mpx_mode" parameter must be specified to the wis-sony-tuner module:

<table>
<thead>
<tr>
<th>TV band</th>
<th>Audio subcarrier</th>
<th>force_mpx_mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAL B/G</td>
<td>Mono (default)</td>
<td>1</td>
</tr>
</tbody>
</table>
If the "force_mpx_mode" parameter is not specified, the correct mono-only mode will be chosen based on the TV band. However, the tuner will not receive stereo audio or bilingual broadcasts correctly.

To pass the "force_band" or "force_mpx_mode" parameters to the wis-sony-tuner module, the following line must be added to the modprobe configuration file, which varies from one Linux distribution to another.

```shell
options wis-sony-tuner force_band=B force_mpx_mode=2
```

The above example would force the tuner to the PAL B/G TV band and receive stereo audio broadcasts on the A2 carrier.

To verify that the configuration has been placed in the correct location, execute:

```shell
$ modprobe -c | grep wis-sony-tuner
```

If the configuration line appears, then modprobe will pass the parameters correctly the next time the wis-sony-tuner module is loaded into the kernel.

4. TESTING THE DRIVER

Because few Linux applications are able to correctly capture from Video4Linux2 devices with only compressed formats supported, the new driver should be tested with the "gorecord" application in the apps/ directory.

First connect a video source to the device, such as a DVD player or VCR. This will be captured to a file for testing the driver. If an input source is unavailable, a test file can still be captured, but the video will be black and the audio will be silent.

This application will auto-detect the V4L2 and ALSA/OSS device names of the
hardware and will record video and audio to an AVI file for a specified number of seconds. For example:

    $ apps/gorecord -duration 60 capture.avi

If this application does not successfully record an AVI file, the error messages produced by gorecord and recorded in the system log (usually in /var/log/messages) should provide information to help resolve the problem.

Supplying no parameters to gorecord will cause it to probe the available devices and exit. Use the -help flag for usage information.

5. USING THE DRIVER

The V4L2 device implemented by the driver provides a standard compressed format API, within the following criteria:

* Applications that only support the original Video4Linux1 API will not be able to communicate with this driver at all.

* No raw video modes are supported, so applications like xawtv that expect only uncompressed video will not function.

* Supported compression formats are: Motion-JPEG, MPEG1, MPEG2 and MPEG4.

* MPEG video formats are delivered as Video Elementary Streams only. Program Stream (PS), Transport Stream (TS) and Packetized Elementary Stream (PES) formats are not supported.

* Video parameters such as format and input port may not be changed while the encoder is active.

* The audio capture device only functions when the video encoder is actively capturing video. Attempts to read from the audio device when the encoder is inactive will result in an I/O error.

* The native format of the audio device is 48Khz 2-channel 16-bit little-endian PCM, delivered through the ALSA system. No audio compression is implemented in the hardware. ALSA may convert to other uncompressed formats on the fly.

The include/ directory contains a C header file describing non-standard features of the GO7007SB encoder, which are described below:

GO7007IOC_S_COMP_PARAMS, GO7007IOC_G_COMP_PARAMS
These ioctls are used to negotiate general compression parameters.

To query the current parameters, call the GO7007IOC_G_COMP_PARAMS ioctl with a pointer to a struct go7007_comp_params. If the driver is not set to MPEG format, the EINVAL error code will be returned.

To change the current parameters, initialize all fields of a struct go7007_comp_params and call the GO7007_IOC_S_COMP_PARAMS ioctl with a pointer to this structure. The driver will return the current parameters with any necessary changes to conform to the limitations of the hardware or current compression mode. Any or all fields can be set to zero to request a reasonable default value. If the driver is not set to MPEG format, the EINVAL error code will be returned. When I/O is in progress, the EBUSY error code will be returned.

Fields in struct go7007_comp_params:

```c
__u32 gop_size

    The maximum number of frames in each Group Of Pictures; i.e. the maximum number of frames minus one between each key frame.
```

```c
__u32 max_b_frames

    The maximum number of sequential bidirectionally-predicted frames. (B-frames are not yet supported.)
```

```c
enum go7007_aspect_ratio

    The aspect ratio to be encoded in the meta-data of the compressed format.
```

Choices are:

- GO7007_ASPECT_RATIO_1_1
- GO7007_ASPECT_RATIO_4_3_NTSC
- GO7007_ASPECT_RATIO_4_3_PAL
- GO7007_ASPECT_RATIO_16_9_NTSC
- GO7007_ASPECT_RATIO_16_9_PAL

```c
__u32 flags

    Bit-wise OR of control flags (below)
```

Flags in struct go7007_comp_params:

- GO7007_COMP_CLOSED_GOP Only produce self-contained GOPs, used to produce streams appropriate for random seeking.

- GO7007_COMP_OMIT_SEQ_HEADER Omit the stream sequence header.
GO7007IOC_S_MPEG_PARAMS, GO7007IOC_G_MPEG_PARAMS

These ioctls are used to negotiate MPEG-specific stream parameters when the pixelformat has been set to V4L2_PIX_FMT_MPEG.

To query the current parameters, call the GO7007IOC_G_MPEG_PARAMS ioctl with a pointer to a struct go7007_mpeg_params. If the driver is not set to MPEG format, the EINVAL error code will be returned.

To change the current parameters, initialize all fields of a struct go7007_mpeg_params and call the GO7007_IOC_S_MPEG_PARAMS ioctl with a pointer to this structure. The driver will return the current parameters with any necessary changes to conform to the limitations of the hardware or selected MPEG mode. Any or all fields can be set to zero to request a reasonable default value. If the driver is not set to MPEG format, the EINVAL error code will be returned. When I/O is in progress, the EBUSY error code will be returned.

Fields in struct go7007_mpeg_params:

enum go7007_mpeg_video_standard
    mpeg_video_standard  The MPEG video standard in which to compress the video.

    Choices are:
    GO7007_MPEG_VIDEO_MPEG1
    GO7007_MPEG_VIDEO_MPEG2
    GO7007_MPEG_VIDEO_MPEG4

__u32 flags
    Bit-wise OR of control flags (below)

__u32 pali
    The profile and level indication to be stored in the sequence header. This is only used as an indicator to the decoder, and does not affect the MPEG features used in the video stream. Not valid for MPEG1.

    Choices for MPEG2 are:
    GO7007_MPEG2_PROFILE_MAIN_MAIN

    Choices for MPEG4 are:
    GO7007_MPEG4_PROFILE_S_L0
    GO7007_MPEG4_PROFILE_S_L1
    GO7007_MPEG4_PROFILE_S_L2
    GO7007_MPEG4_PROFILE_S_L3
Flags in struct go7007_mpeg_params:

GO7007_MPEG_FORCE_DVD_MODE  Force all compression parameters and
bitrate control settings to comply
with DVD MPEG2 stream requirements.
This overrides most compression and
bitrate settings!

GO7007_MPEG_OMIT_GOP_HEADER Omit the GOP header.

GO7007_MPEG_REPEAT_SEQHEADER Repeat the MPEG sequence header at
the start of each GOP.

GO7007IOC_S_BITRATE, GO7007IOC_G_BITRATE

These ioctl's are used to set and query the target bitrate value for the
compressed video stream. The bitrate may be selected by storing the
target bits per second in an int and calling GO7007IOC_S_BITRATE with a
pointer to the int. The bitrate may be queried by calling
GO7007IOC_G_BITRATE with a pointer to an int where the current bitrate
will be stored.

Note that this is the primary means of controlling the video quality
for all compression modes, including V4L2_PIX_FMT_MJPEG. The
VIDIOC_S_JPEGCOMP ioctl is not supported.

/installing the wis pci voyager driver

The WIS PCI Voyager driver requires several patches to the Linux 2.6.11.x
kernel source tree before compiling the driver. These patches update the
in-kernel SAA7134 driver to the newest development version and patch bugs
in the TDA8290/TDA8275 tuner driver.
The following patches must be downloaded from Gerd Knorr's website and applied in the order listed:

http://dl.bytesex.org/patches/2.6.11-2/i2c-tuner
http://dl.bytesex.org/patches/2.6.11-2/i2c-tuner2
http://dl.bytesex.org/patches/2.6.11-2/v4l2-api-mpeg
http://dl.bytesex.org/patches/2.6.11-2/saa7134-update

The following patches are included with this SDK and can be applied in any order:

patches/2.6.11/saa7134-voyager.diff
patches/2.6.11/tda8275-newaddr.diff
patches/2.6.11/tda8290-ntsc.diff

Check to make sure the CONFIG_VIDEO_SAA7134 option is enabled in the kernel configuration, and build and install the kernel.

After rebooting into the new kernel, the GO7007 driver can be compiled and installed:

$ make SAA7134_BUILD=y
$ make install
$ modprobe saa7134-go7007

There will be two V4L video devices associated with the PCI Voyager. The first device (most likely /dev/video0) provides access to the raw video capture mode of the SAA7133 device and is used to configure the source video parameters and tune the TV tuner. This device can be used with xawtv or other V4L(2) video software as a standard uncompressed device.

The second device (most likely /dev/video1) provides access to the compression functions of the GO7007. It can be tested using the gorecord application in the apps/ directory of this SDK:

$ apps/gorecord -vdevice /dev/video1 -noaudio test.avi

Currently the frame resolution is fixed at 720x480 (NTSC) or 720x576 (PAL), and the video standard must be specified to both the raw and the compressed video devices (xawtv and gorecord, for example).
- Release 0.9.7 includes new support for using udev to run fxload. The install script should automatically detect whether the old hotplug scripts or the new udev rules should be used. To force the use of hotplug, run "make install USE_UDEV=n". To force the use of udev, run "make install USE_UDEV=y".

- Motion detection is supported but undocumented. Try the `modet` app for a demonstration of how to use the facility.

- Using USB2.0 devices such as the TV402U with USB1.1 HCDs or hubs can cause buffer overruns and frame drops, even at low framerates, due to inconsistency in the bitrate control mechanism.

- On devices with an SAA7115, including the Plextor ConvertX, video height values of 96, 128, 160, 192, 256, 320, and 384 do not work in NTSC mode. All valid heights up to 512 work correctly in PAL mode.

- The WIS Star Trek and PCI Voyager boards have no support yet for audio or the TV tuner.

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The firmware files "dvb-usb-it9135-01.fw" and "dvb-usb-it9135-02.fw" are for ITEtech it9135 Ax and Bx chip versions.

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Firmware provided as part of an XC5000C Linux developers kit by Ramon Cazares
<Ramon.Cazares@CrestaTech.com> to Devin Heitmueller dheitmueller@linuxtv.org

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Here is a list of the main contributors to lm-sensors version 3.

* Frodo Looijaard
  Original author of libsensors, sensors-detect, sensors and isadump.
* Merlin Hughes
  Original author of sensord.
* Bob Schlaermann
  Dynamic chip feature detection (a.k.a. generic chip support) in libsensors and sensors.
* Mark M. Hoffman
  Many improvements to the libsensors configuration file scanner.
* Jean Delvare
  New libsensors API, and migration of sensors and sensord thereto.
  Many optimizations in libsensors and sensors.
  Configuration file converter.
  Rewrite of sensors-detect.
  Support for multiple configuration files in libsensors.

1.870 lm_sensors-libs 3.1.1 :10.el6.x86_64

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1.876 Logstash 6.1-1

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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.
The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or
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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.
When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a
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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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1.890 lvm2-libs 2.02.180-10

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1.892 lvm2-sysvinit 2.02.180-10

1.893 lxc 3.0.293
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)

These requirements apply to the modified work as a whole. If
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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.
5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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 correo_gssapi.c is partially derived from sample code in:
* GSS-API Programming Guide
* Part No: 816-1331-11
* Sun Microsystems, Inc. 4150 Network Circle Santa Clara, CA 95054 U.S.A.

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Network Working Group  H. Krawczyk
Request for Comments: 2104  IBM
HMAC: Keyed-Hashing for Message Authentication

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==========================================================================
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Network Working Group  H. Krawczyk
Request for Comments: 2104  IBM
Category: Informational  M. Bellare
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February 1997

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Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a
program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Library,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public
License instead of this License to a given copy of the Library. To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License. (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.) Do not make any other change in
these notices.

Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse
You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.
7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

   a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

   b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

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This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>
This library is free software; you can redistribute it and/or modify it under the terms of the GNU Library General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

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You should have received a copy of the GNU Library General Public License along with this library; if not, write to the Free Software Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

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Version 3, 29 June 2007

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When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

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For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.
TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.


The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.
A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains
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Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

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You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:
a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a
copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

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@c Local Variables:
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@c End:

1.910 make 3.82 :23.el7

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The "source code" for a work means the preferred form of the work
for making modifications to it. "Object code" means any non-source
form of a work.

A "Standard Interface" means an interface that either is an official
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interfaces specified for a particular programming language, one that
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1.912 man-db 2.6.3 :11.el7

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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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      (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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== MariaDB ==

The Debian package of MySQL was first debianized on 1997-04-12 by Christian Schwarz <schwarz@debian.org> and is maintained since 1999-04-20 by Christian Hammers <ch@debian.org>.

The MariaDB packages were initially made by http://ourdelta.org/, and are now managed by the MariaDB development team, maria-developers@lists.launchpad.net

MariaDB can be downloaded from http://downloads.askmonty.org/mariadb/
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The manual had to be removed as it is not free in the sense of the Debian Free Software Guidelines (DFSG).

== innotop ==

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Warnings:
Warning1681`SHOW CONTRIBUTORS` is deprecated and will be removed in a future release.

```sql
--echo '#---------------------BS_STVARS_040_01----------------------#'
--echo '# Variable Name: license    #
--echo '# Scope: Global    #
--echo '# Access Type: Static    #
--echo '# Data Type: string    #
--echo '#    #
--echo '# Creation Date: 2008-02-07    #
--echo '# Author : Sharique Abdullah    #
--echo '#    #
--echo '# Description: Test Cases of Dynamic System Variable license    #
--echo '# that checks the behavior of this variable in the following ways #
--echo '#     * Value Check    #
--echo '#     * Scope Check    #
--echo '#    #
--echo '# server-system-variables.html    #
--echo '#    #
--echo '#*******************************************************************************#'

--error ER_INCORRECT_GLOBAL_LOCAL_VAR
SET @@GLOBAL.license=1;
```
--echo Expected error 'Read only variable'

SELECT COUNT(@@GLOBAL.license);
--echo 1 Expected

--echo '#---------------------------------------------------------------------------#'
# Check if the value in GLOBAL Table matches value in variable #
#-----------------------------------------------------------------------------------#
SELECT @@GLOBAL.license = VARIABLE_VALUE
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
--echo 1 Expected

SELECT COUNT(@@GLOBAL.license);
--echo 1 Expected

SELECT COUNT(VARIABLE_VALUE)
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
--echo 1 Expected

--echo '#---------------------------------------------------------------------------#'
# Check if accessing variable with and without GLOBAL point to same variable #
#-----------------------------------------------------------------------------------#
SELECT @@license = @@GLOBAL.license;
--echo 1 Expected

--echo '#---------------------------------------------------------------------------#'
# Check if license can be accessed with and without @@ sign #
#-----------------------------------------------------------------------------------#
SELECT COUNT(@@license);
--echo 1 Expected

--Error ER_INCORRECT_GLOBAL_LOCAL_VAR
SELECT COUNT(@@local.license);
--echo Expected error 'Variable is a GLOBAL variable'
-- Error ER_INCORRECT_GLOBAL_LOCAL_VAR
SELECT COUNT(@@SESSION.license);
-- echo Expected error 'Variable is a GLOBAL variable'

SELECT COUNT(@@GLOBAL.license);
-- echo 1 Expected

-- Error ER_BAD_FIELD_ERROR
SELECT license = @@SESSION.license;
-- echo Expected error 'Readonly variable'

'#---------------------BS_STVARS_040_01----------------------#'
SELECT COUNT(@@GLOBAL.license);
COUNT(@@GLOBAL.license)
1
1 Expected

'#---------------------BS_STVARS_040_02----------------------#'
SET @@GLOBAL.license=1;
ERROR HY000: Variable 'license' is a read only variable
Expected error 'Read only variable'
SELECT COUNT(@@GLOBAL.license);
COUNT(@@GLOBAL.license)
1
1 Expected

'#---------------------BS_STVARS_040_03----------------------#'
SELECT @@GLOBAL.license = VARIABLE_VALUE
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
@@GLOBAL.license = VARIABLE_VALUE
1
1 Expected
SELECT COUNT(@@GLOBAL.license);
COUNT(@@GLOBAL.license)
1
1 Expected

SELECT COUNT(VARIABLE_VALUE)
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
COUNT(VARIABLE_VALUE)
1
1 Expected

'#---------------------BS_STVARS_040_04----------------------#'
SELECT @@license = @@GLOBAL.license;
@@license = @@GLOBAL.license
1
1 Expected

'#---------------------BS_STVARS_040_05----------------------#'
SELECT COUNT(@@license);
COUNT(@@license)
1
1 Expected
SELECT COUNT(@@local.license);
ERROR HY000: Variable 'license' is a GLOBAL variable
Expected error 'Variable is a GLOBAL variable'
SELECT COUNT(@@SESSION.license);
ERROR HY000: Variable 'license' is a GLOBAL variable
Expected error 'Variable is a GLOBAL variable'
SELECT COUNT(@@GLOBAL.license);
COUNT(@@GLOBAL.license)
1
1 Expected
SELECT license = @@SESSION.license;
ERROR 42S22: Unknown column 'license' in 'field list'
Expected error 'Readonly variable'

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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a) Accompany the work with the complete corresponding
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1.914 mariadb 5.5.47 :1.el7_2

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== MariaDB ==

The Debian package of MySQL was first debianized on 1997-04-12 by Christian Schwarz <schwarz@debian.org> and is maintained since 1999-04-20 by Christian Hammers <ch@debian.org>.

The MariaDB packages were initially made by http://ourdelta.org/, and are now managed by the MariaDB development team, maria-developers@lists.launchpad.net

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However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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1.917 mdadm 4.1 :rc1_2.el7

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<h1>Attention, Contributors</h1>

When contributing to the Mesa project you must agree to the licensing terms of the component to which you're contributing. The following section lists the primary components of the Mesa distribution and their respective licenses.

<h1>Mesa Component Licenses</h1>

<pre>
Component          Location                License
------------------------------
Main Mesa code      src/mesa/              MIT
Device drivers      src/mesa/drivers/*    MIT, generally
Gallium code        src/gallium/          MIT
Ext headers         include/GL/glext.h    Khronos
                      include/GL/glxext.h
GLX client code     src/glx/              SGI Free Software License B
C11 thread          include/c11/threads*.h Boost (permissive)
</pre>

In general, consult the source files for license terms.
* Number sign (as used in preprocessor)
* Backslash just before newline as line continuation
* White space:
  * Space, horizontal tab, vertical tab, form feed, carriage-return, and line-feed.
* [GLSL Language Specification 4.30.6, section 3.1]
* In this file, we test each of these in turn as follows:
  * Identifier characters: All pass through unchanged
  * Punctuation: All pass through unchanged
  * Special: Empty directive replaced with blank line
    Line continuation merges two lines, then a blank line
  * Whitespace: 4 horizontal space characters each replaced with space
    2 newline characters each replaced with a newline
*/

abcdefghijklmnopqrstuvwxyz
ABCDEFGHIJKLMNOPQRSTUVWXYZ
_ 0123456789
.+-
/ *
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< >
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)
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}
^ |
& ~
= ! :
;
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# IN THE SOFTWARE.
#
# Authors:
#    Ian Romanick <idr@us.ibm.com>

bsd_license_template = """%s
All Rights Reserved.

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copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sub license,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

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AND/OR THEIR SUPPLIERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF
OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.''''

Subject: RE: Question about Mesa MLAA license
From: Jorge Jimenez <iryoku@gmail.com>
Date: 01/08/2013 12:50 PM
To: Tom Callaway <tcallawa@redhat.com>
CC: "jorge@iryoku.com" <jorge@iryoku.com>

Yes to both questions.

Thanks,
Jorge

From: Tom Callaway <tcallawa@redhat.com>
Sent: January 8, 2013 6:49 PM
To: Jorge Jimenez <iryoku@gmail.com>
CC: jorge@iryoku.com
Subject: Re: Question about Mesa MLAA license

On 01/08/2013 12:39 PM, Jorge Jimenez wrote:
> Hi Tom,
> 
> What we meant with that is that we made an exception for clause 2.
> Instead of clause 2, in the case of the Mesa project, you have to name
> the technique Jimenez's MLAA in the config options of Mesa. We did that
> just to allow them to solve license issues. This exception should be for
> the Mesa project, and any project using Mesa, like Fedora.
> 
> We want to widespread usage of our MLAA, so we want to avoid any kind of
> license complications. Hope current one is good for Fedora, if not
> please tell, and we'll see what we can do!

Okay, a few more questions:

* If Fedora decides to simply reproduce the quoted statement:
"Uses Jimenez's MLAA. Copyright (C) 2010 by Jorge Jimenez, Belen Masia,
Jose I. Echevarria, Fernando Navarro and Diego Gutierrez."
Specifically, if this is done as part of documentation included with Mesa, is that sufficient to meet clause 2 even if the Mesa config option is not set as described in your exception?

* Currently, the Mesa config option for MLAA says: "Morphological anti-aliasing based on Jimenez\' MLAA. 0 to disable, 8 for default quality". Is this in compliance with your exception?

Thanks again,

~tom

==

Fedora Project

Subject: RE: Question about Mesa MLAA license
From: Jorge Jimenez <iryoku@gmail.com>
Date: 01/08/2013 12:39 PM
To: "jorge@iryoku.com" <jorge@iryoku.com>, Tom Callaway <tcallawa@redhat.com>

Hi Tom,

What we meant with that is that we made an exception for clause 2. Instead of clause 2, in the case of the Mesa project, you have to name the technique Jimenez's MLAA in the config options of Mesa. We did that just to allow them to solve license issues. This exception should be for the Mesa project, and any project using Mesa, like Fedora.

We want to widespread usage of our MLAA, so we want to avoid any kind of license complications. Hope current one is good for Fedora, if not please tell, and we'll see what we can do!

Cheers,
Jorge

From: Tom Callaway <tcallawa@redhat.com>
Sent: January 8, 2013 6:30 PM
To: jorge@iryoku.com
Subject: Question about Mesa MLAA license

Jorge,

Thanks for all of your fantastic graphics work! I have been auditing Fedora (a popular distribution of Linux) for license compliance and I came across your MLAA code in Mesa.

The license says:
2. Redistributions in binary form must reproduce the following statement:

"Uses Jimenez's MLAA. Copyright (C) 2010 by Jorge Jimenez, Belen Masia, Jose I. Echevarria, Fernando Navarro and Diego Gutierrez."

Only for use in the Mesa project, this point 2 is filled by naming the technique Jimenez's MLAA in the Mesa config options.

That wording is unclear. When you say "Only for use in the Mesa project...", it seems like you could either be saying:

- This code may only be used as part of Mesa.

OR

- In Mesa, you can comply with clause 2 by simply selecting "Jimenez's MLAA" in the Mesa config options.

*****

If the first item is true, then we may have to remove the MLAA code from Fedora's copy of Mesa. However, looking at the license on your SMAA code, I do not believe it to be the case. Please let me know either way!

Thanks in advance,

Tom Callaway
Fedora Legal

==
Fedora Project

1.920 mesa 10.6.5 :3.20150824.el7
1.920.1 Available under license :

Some parts of Mesa are copyrighted under the GNU LGPL. See the Mesa/docs/COPYRIGHT file for details.

The following is the standard GNU copyright file.

GNU LIBRARY GENERAL PUBLIC LICENSE
Version 2, June 1991
Copyright (C) 1991 Free Software Foundation, Inc.
675 Mass Ave, Cambridge, MA 02139, USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Library General Public License, applies to some specially designated Free Software Foundation software, and to any other libraries whose authors decide to use it. You can use it for your libraries, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original
version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary
General Public License rather than by this special one.

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0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.
2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under
the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above
specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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and the section as a whole is intended to apply in other circumstances.

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through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

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original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries,
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13. The Free Software Foundation may publish revised and/or new versions of the Library General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

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Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Library General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Library General Public License for more details.

You should have received a copy of the GNU Library General Public License along with this library; if not, write to the Free Software Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

Subject: RE: Question about Mesa MLAA license
From: Jorge Jimenez <iryoku@gmail.com>
Date: 01/08/2013 12:50 PM
To: Tom Callaway <tcallawa@redhat.com>
CC: "jorge@iryoku.com" <jorge@iryoku.com>

Yes to both questions.

Thanks,
Jorge

From: Tom Callaway <tcallawa@redhat.com>
Sent: January 8, 2013 6:49 PM
To: Jorge Jimenez <iryoku@gmail.com>
CC: jorge@iryoku.com
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~tom

==
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What we meant with that is that we made an exception for clause 2. Instead of clause 2, in the case of the Mesa project, you have to name the technique Jimenez's MLAA in the config options of Mesa. We did that just to allow them to solve license issues. This exception should be for the Mesa project, and any project using Mesa, like Fedora.

We want to widespread usage of our MLAA, so we want to avoid any kind of license complications. Hope current one is good for Fedora, if not please tell, and we'll see what we can do!

Cheers,
Jorge

From: Tom Callaway <tcallawa@redhat.com>
Sent: January 8, 2013 6:30 PM
To: jorge@iryoku.com
Subject: Question about Mesa MLAA license

Jorge,

Thanks for all of your fantastic graphics work! I have been auditing Fedora (a popular distribution of Linux) for license compliance and I came across your MLAA code in Mesa.

The license says:

* 2. Redistributions in binary form must reproduce the following statement:
 * 
  * "Uses Jimenez's MLAA. Copyright (C) 2010 by Jorge Jimenez, Belen Masia,
  * Jose I. Echevarria, Fernando Navarro and Diego Gutierrez."
 * 
  * Only for use in the Mesa project, this point 2 is filled by naming the 
  * technique Jimenez's MLAA in the Mesa config options.

That wording is unclear. When you say "Only for use in the Mesa project...", it seems like you could either be saying:

- This code may only be used as part of Mesa.
OR

- In Mesa, you can comply with clause 2 by simply selecting "Jimenez's MLAA" in the Mesa config options.

*****

If the first item is true, then we may have to remove the MLAA code from Fedora's copy of Mesa. However, looking at the license on your SMAA code, I do not believe it to be the case. Please let me know either way!

Thanks in advance,

Tom Callaway
Fedora Legal

==
Fedora Project

1.921 mesa 18.0.5 :3.el7.centos

1.921.1 Available under license:

Mesa is a 3-D graphics library with an API which is very similar to that of OpenGL.* To the extent that Mesa utilizes the OpenGL command syntax or state machine, it is being used with authorization from Open GL.*
Silicon Graphics, Inc. However, the author does not possess an OpenGL license from SGI, and makes no claim that Mesa is in any way a compatible replacement for OpenGL or associated with SGI. Those who want a licensed implementation of OpenGL should contact a licensed vendor.

Please do not refer to the library as MesaGL (for legal reasons). It's just Mesa or The Mesa 3-D graphics library.

* OpenGL is a trademark of Silicon Graphics Incorporated.

The core Mesa library is licensed according to the terms of the MIT license. This allows integration with the XFree86, Xorg and DRI projects.

The default Mesa license is as follows:

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</pre>

<h1>Attention, Contributors</h1>

<p>When contributing to the Mesa project you must agree to the licensing terms of the component to which you're contributing. The following section lists the primary components of the Mesa distribution and their respective licenses.</p>

<h1>Mesa Component Licenses</h1>

<pre>
Component | Location       | License          
-----------------|-----------------|-------------------
Main Mesa code  | src/mesa/       | MIT               
Device drivers  | src/mesa/drivers/* | MIT, generally   
Gallium code    | src/gallium/    | MIT               
Ext headers     | include/GL/glext.h | Khronos           
                | include/GL/glxext.h |                 
GLX client code | src/glx/        | SGI Free Software License B 
C11 thread emulation | include/c11/threads*.h Boost (permissive) 
</pre>

<p>In general, consult the source files for license terms.</p>

</div>
/* Legal characters in GLSL are:
 * 
 * Identifier characters:
 * 
 *    Letters a-z
 *    Letters A-Z
 *    Underscore
 *    Numbers 0-9
 * 
 * Punctuation:
 * 
 *    Period, plus, dash, slash, asterisk, percent, angled brackets,
 *    square brackets, parentheses, braces, caret, vertical bar,
 *    ampersand, tilde, equals, exclamation point, colon, semicolon,
 *    comma, and question mark
 * 
 * Special:
* Number sign (as used in preprocessor)
* 
* Backslash just before newline as line continuation
* 
* White space:
* 
* Space, horizontal tab, vertical tab, form feed, carriage-return,  
and line-feed.
* 
* [GLSL Language Specification 4.30.6, section 3.1]
* 
* In this file, we test each of these in turn as follows:
* 
* Identifier characters: All pass through unchanged
* Punctuation: All pass through unchanged
* Special: Empty directive replaced with blank line
* Line continuation merges two lines, then a blank line
* Whitespace: 4 horizontal space characters each replaced with space
* 2 newline characters each replaced with a newline
* 
*/
abcdefghijklmnopqrstuvwxyz
ABCDEFGHIJKLMNPQRSTUVWXYZ
_0123456789
.-
+-
-/ *
%
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>
[
]
(
)
{
}
^|
&~
=
!
.:;
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#
# Authors:
#   Ian Romanick <idr@us.ibm.com>

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Subject: RE: Question about Mesa MLAA license
From: Jorge Jimenez <iryoku@gmail.com>
Date: 01/08/2013 12:50 PM
To: Tom Callaway <tcallawa@redhat.com>
CC: "jorge@iryoku.com" <jorge@iryoku.com>

Yes to both questions.

Thanks,
Jorge

From: Tom Callaway <tcallawa@redhat.com>
Sent: January 8, 2013 6:49 PM
To: Jorge Jimenez <iryoku@gmail.com>
CC: jorge@iryoku.com
Subject: Re: Question about Mesa MLAA license

On 01/08/2013 12:39 PM, Jorge Jimenez wrote:
> Hi Tom,
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> Instead of clause 2, in the case of the Mesa project, you have to name
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> We want to widespread usage of our MLAA, so we want to avoid any kind of
> license complications. Hope current one is good for Fedora, if not
> please tell, and we'll see what we can do!

Okay, a few more questions:

* If Fedora decides to simply reproduce the quoted statement:
"Uses Jimenez's MLAA. Copyright (C) 2010 by Jorge Jimenez, Belen Masia,
Jose I. Echevarria, Fernando Navarro and Diego Gutierrez."
Specifically, if this is done as part of documentation included with Mesa, is that sufficient to meet clause 2 even if the Mesa config option is not set as described in your exception?

* Currently, the Mesa config option for MLAA says: "Morphological anti-aliasing based on Jimenez\' MLAA. 0 to disable, 8 for default quality". Is this in compliance with your exception?

Thanks again,

~tom

==
Fedora Project

Subject: RE: Question about Mesa MLAA license
From: Jorge Jimenez <iryoku@gmail.com>
Date: 01/08/2013 12:39 PM
To: "jorge@iryoku.com" <jorge@iryoku.com>, Tom Callaway <tcallawa@redhat.com>

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Thanks in advance,

Tom Callaway
Fedora Legal

==
Fedora Project

1.922 mesa-libglapi 18.0.5-3.el7

1.923 microcode-ctl 2.1 :12.el7

1.924 microcode-ctl 2.1-47.el7
1.924.1 Available under license:

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This updated microcode supersedes microcode provided by Red Hat with the CVE-2017-5715 (Spectre) CPU branch injection vulnerability mitigation.

Historically, Red Hat has provided updated microcode, developed by our microprocessor partners, as a customer convenience. Red Hat had temporarily suspended this practice while microcode stabilized. Red Hat is once again providing an updated Intel microcode package (microcode_ctl) and AMD microcode package (linux-firmware) to customers in order to simplify deployment processes and minimize downtime.
continue to update these microcode packages as necessary. Please contact your hardware vendor to determine whether more recent BIOS/firmware updates are recommended because additional improvements may be available.

This kbase https://access.redhat.com/articles/3436091 includes a table that maps Intel and AMD CPU processor code family names to updated Intel and AMD microcode package versions.

**1.925 MIME::Base64 3.15-396.el7**

**1.926 mininet 0.2 :1**

**1.926.1 Available under license :**

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1.927 mininet 1.0.0

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1.928 mknbi 1.4.4 :1.noarch

1.928.1 Available under license:

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<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

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# ck-copyright-notice can be run from the tools directory
dir=`pwd`
[ -d src ] || [ "basename "$dir"" != tools ] || cd..

# Note: if paragraphs are reformatted, this may need to be updated.

lgpl=""`sed -n '/version \[0-9.\]* or any later version/ { s/.*/version //

s/ or.*/}
p

```
# Do not use "find ... | while read file do ... done" because the "do"
# part needs to be run in the current shell, and some shells behave in
# a different way.
srctests=`find src tests -name '*.[ch]'

err=0
for file in $srctests
do
    y=""
case $file in
tests/RRTest.c)
    # This file doesn't have a copyright notice, but isn't distributed.
    continue ;;
src/mpfr-longlong.h)
    # This file (which comes from GMP) has a specific copyright notice.
    continue ;;
src/get_patches.c)
    file="tools/get_patches.sh" ;;
*/mparam.h)
    y="2005." ;;
esac
grep -q "Copyright $y.* Free Software Foundation" "$file" && 
grep -q "GNU MPFR Library" "$file" && 
grep -q "either version $lgpl of the License" "$file" &&
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   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.
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o libdnet: Networking library, used for low-level tasks such as sending ethernet frames. A modified version is distributed with Nmap in the libdnet-stripped subdirectory. A summary of Nmap-local modifications is in the file NMAP_MODIFICATIONS.
http://code.google.com/p/libdnet/
o PCRE: Perl-compatible regular expressions. PCRE is part of Nmap's version detection and is also made available as an NSE library. Distributed with Nmap in the libpcre subdirectory.
http://www.pcre.org/
o liblua: Lua programming language. Lua is the implementation language of NSE, the Nmap Scripting Engine. Nmap links with liblua to allow running Lua programs inside Nmap. Distributed with Nmap in the liblua subdirectory. liblua can be omitted by configuring with the --without-liblua configuration directive.
http://www.lua.org/
o OpenSSL: Cryptographic library. OpenSSL is used by service detection and by NSE to connect to SSL services. NSE also provides access to OpenSSL functions such as encryption and digest calculation. OpenSSL can be disabled by configuring with the --without-openssl configuration directive.
http://www.openssl.org/
o LIBLINEAR. Used for IPv6 OS classification.
http://www.csie.ntu.edu.tw/~cjlin/liblinear/
o libsvn. The Subversion library, used by the updater program

On Windows only, Nmap uses:
o WinPcap: libpcap for Windows. The libpcap license applies to WinPcap,
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   distributed with Nmap in the subdirectory mswin32/winpcap.
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Zenmap and Ndiff require:
o Python. The binary distributions of Nmap include a Python interpreter
   and various libraries, built using either py2exe or py2app.
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-o Various X.org libraries. These were built using MacPorts.
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Written by: Philip Hazel
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1.941 net-snmp-libs 5.5 :41.el6_3.1

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1.942 net-snmp-libs 5.7.2 :37.el7

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1.946 netaddr python library 0.7.19

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1.948 nettle 2.7.1 :8.el7
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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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1.951 NetworkManager-libnm 1.12.0-10.el7_6.x86_64

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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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b) You must cause the files modified to carry prominent notices
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c) You must cause the whole of the work to be licensed at no
charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a
table of data to be supplied by an application program that uses
the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)

These requirements apply to the modified work as a whole. If
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.
If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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Our method of protecting your rights has two steps: (1) copyright
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Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

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   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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Written by: Philip Hazel  
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1.959 node 0.12.7-linux-x64-1-2

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 */

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#define UV_PLATFORM_FS_EVENT_FIELDS
    uv__io_t event_watcher;

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#define UV_HAVE_KQUEUE 1

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# spdix-license-ids

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[**Download JSON**](https://raw.githubusercontent.com/shinnn/spdx-license-ids/master/spdx-license-ids.json)

## Use as a JavaScript Library

### Installation

##### Package managers

```
```
```
```
```javascript
```
```
```
```javascript
```

##### Standalone

[Download the script file directly.](https://raw.githubusercontent.com/shinnn/spdx-license-ids/master/spdx-license-ids-browser.js)

### API

#### spdxLicenseIds

Type: `Array` of `String`

It returns an array of SPDX license identifiers.

```
```
```javascript
```
```javascript
```

---

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}
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// Original can be found at:
// https://bitbucket.org/lindenlab/lsl
de Modifications by Joshua Bell inexorabletash@gmail.com
// https://github.com/inexorabletash/polyfill

// ES3/ES5 implementation of the Khronos Typed Array Specification
// Ref: http://www.khronos.org/registry/typedarray/specs/latest/
// Date: 2011-02-01
//
// Variations:
// * Allows typed_array.get/set() as alias for subscripts (typed_array[])
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var spdx = require('spdx');

var valid = spdx.valid.bind(spdx);

// Common transpositions of license identifier acronyms

var transpositions = [
    ['APGL', 'AGPL'],
    ['Gpl', 'GPL'],
    ['GLP', 'GPL'],
    ['Apl', 'Apache'],
    ['ISD', 'ISC'],
    ['GPL', 'GPL'],
    ['IST', 'ISC'],
    ['Claude', 'Clause'],
    [' or later', '+'],
    [' International', ''],
    ['GNU', 'GPL'],
    ['GUN', 'GPL'],
    ['+', ''],
    ['GNU GPL', 'GPL'],
    ['GNU/GPL', 'GPL'],
    ['GNU GLP', 'GPL'],
    ['GNU General Public License', 'GPL'],
    ['Gnu public license', 'GPL'],
    ['GNU Public License', 'GPL'],
    ['GNU GENERAL PUBLIC LICENSE', 'GPL'],
    ['MIT', 'MIT'],
    ['Mozilla Public License', 'MPL'],
    ['WTH', 'WTF'],
    ['-License', '']];
var TRANSPOSED = 0;
var CORRECT = 1;

// Simple corrections to nearly valid identifiers.
var transforms = [
  // e.g. 'mit'
  function(argument) {
    return argument.toUpperCase();
  },
  // e.g. 'MIT'
  function(argument) {
    return argument.trim();
  },
  // e.g. 'M.I.T.'
  function(argument) {
    return argument.replace(/\./g, "");
  },
  // e.g. 'Apache-2.0'
  function(argument) {
    return argument.replace(/\s+/g, "");
  },
  // e.g. 'CC BY 4.0'
  function(argument) {
    return argument.replace(/\s+/g, ";
  },
  // e.g. 'LGPLv2.1'
  function(argument) {
    return argument.replace(/\', "");
  },
  // e.g. 'Apache 2.0'
  function(argument) {
    return argument.replace(/\?,\s*\(\d\), \"$1\";
  },
  // e.g. 'GPL 2'
  function(argument) {
    return argument.replace(/\?,\s*\(\d\), \"$1.0\";
  },
  // e.g. 'Apache Version 2.0'
  function(argument) {
    return argument.replace(/\?,\s*(V\.|V\.|V\.|V|Version|version)\s*\(\d\), \"$2\";
  },
  // e.g. 'Apache Version 2'
  function(argument) {
    return argument.replace(/\?,\s*(V\.|V\.|V\.|V|Version)\s*\(\d\), \"$2.0\";
  },
  // e.g. 'ZLIB'
];
```javascript
function(argument) {
  return argument[0].toUpperCase() + argument.slice(1);
},
// e.g. 'MPL/2.0'
function(argument) {
  return argument.replace('/', '-');
},
// e.g. 'Apache 2'
function(argument) {
  return argument.replace(/\s*V\s*(\d)/, '-$1')
    .replace(/(\d)\$/i, '$1.0');
},
// e.g. 'GPL-2.0-
function(argument) {
  return argument.slice(0, argument.length - 1);
},
// e.g. 'GPL2'
function(argument) {
  return argument.replace(/(\d)\$/i, '-$1.0');
},
// e.g. 'BSD 3'
function(argument) {
  return argument.replace(/(\d)\$/i, '-$2-Clause');
},
// e.g. 'BSD clause 3'
function(argument) {
  return argument.replace(/(\d)\$/i, '-$3-Clause');
},
// e.g. 'BY-NC-4.0'
function(argument) {
  return 'CC-' + argument;
},
// e.g. 'BY-NC'
function(argument) {
  return 'CC-' + argument + '-4.0';
},
// e.g. 'Attribution-NonCommercial'
function(argument) {
  return argument
    .replace('Attribution', 'BY')
    .replace('NonCommercial', 'NC')
    .replace('NoDerivatives', 'ND')
    .replace(/(\d)\$/i, '-$1')
    .replace(/\?International/, "");
},
// e.g. 'Attribution-NonCommercial'
```

Open Source Used In Application Centric Infrastructure Service Engine (ACI-SE) 1.1
24576
return 'CC-' +
    argument
    .replace('Attribution', 'BY')
    .replace('NonCommercial', 'NC')
    .replace('NoDerivatives', 'ND')
    .replace(/ (d)/, '-$1')
    .replace(/ ?International/, '') +
    '-4.0';
}
];

// If all else fails, guess that strings containing certain substrings
// meant to identify certain licenses.
var lastResorts = [
    ['UNLI', 'Unlicense'],
    ['WTF', 'WTFPL'],
    ['2 CLAUSE', 'BSD-2-Clause'],
    ['2-CLAUSE', 'BSD-2-Clause'],
    ['3 CLAUSE', 'BSD-3-Clause'],
    ['3-CLAUSE', 'BSD-3-Clause'],
    ['AFFERO', 'AGPL-3.0'],
    ['AGPL', 'AGPL-3.0'],
    ['APACHE', 'Apache-2.0'],
    ['ARTISTIC', 'Artistic-2.0'],
    ['Affero', 'AGPL-3.0'],
    ['BEER', 'Beerware'],
    ['BOOST', 'BSL-1.0'],
    ['BSD', 'BSD-2-Clause'],
    ['ECLIPSE', 'EPL-1.0'],
    ['FUCK', 'WTFPL'],
    ['GNU', 'GPL-3.0'],
    ['LGPL', 'LGPL-3.0'],
    ['GPL', 'GPL-3.0'],
    ['MIT', 'MIT'],
    ['MPL', 'MPL-2.0'],
    ['X11', 'X11'],
    ['ZLIB', 'Zlib']
];

var SUBSTRING = 0;
var IDENTIFIER = 1;

var validTransformation = function(identifier) {
    for (var i = 0; i < transforms.length; i++) {
        var transformed = transforms[i](identifier);
        if (transformed !== identifier && valid(transformed)) {
            return transformed;
        }
    }
}
var validLastResort = function(identifier) {
  var upperCased = identifier.toUpperCase();
  for (var i = 0; i < lastResorts.length; i++) {
    var lastResort = lastResorts[i];
    if (upperCased.indexOf(lastResort.SUBSTRING) > -1) {
      return lastResort.IDENTIFIER;
    }
  }
  return null;
};

var anyCorrection = function(identifier, check) {
  for (var i = 0; i < transpositions.length; i++) {
    var transposition = transpositions[i];
    var transposed = transposition.TRANSPOSED;
    if (identifier.indexOf(transposed) > -1) {
      var corrected = identifier.replace(
        transposed,
        transposition.CORRECT
      );
      var checked = check(corrected);
      if (checked !== null) {
        return checked;
      }
    }
  }
  return null;
};

module.exports = function(identifier) {
  identifier = identifier.replace(/\+$/);  
  if (valid(identifier)) {
    return identifier;
  }
  var transformed = validTransformation(identifier);
  if (transformed !== null) {
    return transformed;
  }
  transformed = anyCorrection(identifier, function(argument) {
    if (valid(argument)) {
      return argument;
    }
  });
  return validTransformation(argument);
};
if (transformed !== null) {
    return transformed;
}
transformed = validLastResort(identifier);
if (transformed !== null) {
    return transformed;
}
transformed = anyCorrection(identifier, validLastResort);
if (transformed !== null) {
    return transformed;
}
return null;
};
spdx-correct.js
===============

[![license](https://img.shields.io/badge/license-Apache--2.0-303284.svg)](http://www.apache.org/licenses/LICENSE-2.0)

Correct invalid SPDX identifiers.

```js
var correct = require('./');

```
```js
**js
correct('mit'); // => 'MIT'
correct('Apache 2'); // => 'Apache-2.0'
correct('No idea what license'); // => null
```

```json
{
    "name": "spdx-correct",
    "description": "correct invalid SPDX identifiers",
    "version": "1.0.0-prerelease-3",
    "author": {
        "name": "Kyle Mitchell",
        "email": "kyle@kemitchell.com",
        "url": "http://kemitchell.com"
    },
    "bugs": {
        "url": "https://github.com/kemitchell/spdx-correct/issues"
    }
}
```
"_resolved": "https://registry.npmjs.org/spdx-correct/-/spdx-correct-1.0.0-prerelease-3.tgz",
"readme": "ERROR: No README data found!"
}
var spdx = require('spdx');
var correct = require('spdx-correct');

module.exports = function(argument) {
  if (spdx.valid(argument)) {
    return {
      validForNewPackages: true,
      validForOldPackages: true
    };
  } else {
    var warnings = [
      'license should be a valid SPDX license expression'
    ];
    var corrected = correct(argument);
    if (corrected) {
      warnings.push(
        'license is similar to the valid expression "' + corrected + '"'
      );
    }
    return {
      validForOldPackages: false,
      validForNewPackages: false,
      warnings: warnings
    };
  }
};

npm-validate-package-license
============================

Give me a string and I'll tell you if it's a valid npm package license.

*This package is not endorsed or approved by npm. It is part of a proposal to add license field validation to the npm command-line interface.*

<!> -- js var valid = require('./'); -->

```
var validResult = {
  validForNewPackages: true,
  validForOldPackages: true
};

valid('Apache-2.0'); // => validResult
valid('GPL-3.0 OR BSD-2-Clause'); // => validResult
```
var invalidResult = {
  validForOldPackages: false,
  validForNewPackages: false,
  warnings: [
    'license should be a valid SPDX license expression',
    'license is similar to the valid expression "Apache-2.0"'
  ]
};
valid('Apache 2.0'); // => invalidResult

```json
{
  "name": "validate-npm-package-license",
  "description": "Give me a string and I'll tell you if it's a valid npm package license",
  "version": "1.0.0-prerelease-2",
  "author": {
    "name": "Kyle E. Mitchell",
    "email": "kyle@kemitchell.com",
    "url": "http://kemitchell.com"
  },
  "bugs": {
    "url": "https://github.com/kemitchell/npm-valid-package-license/issues"
  },
  "dependencies": {
    "spdx": "^0.4.0",
    "spdx-correct": "1.0.0-prerelease-3"
  },
  "devDependencies": {
    "jsmd": "^0.3.0"
  },
  "homepage": "https://github.com/kemitchell/npm-valid-package-license",
  "keywords": ["license", "npm", "package", "validation"],
  "license": "Apache-2.0",
  "main": "index.js",
  "repository": {
    "type": "git",
    "url": "https://github.com/kemitchell/npm-valid-package-license"
  },
  "scripts": {
    "precommit": "npm run test",
    "test": "jsmd README.md"
  },
  "gitHead": "d6043c5bf03a71409daae8d584ba74281e3c55c3",
```
"_id": "validate-npm-package-license@1.0.0-prerelease-2",
"_shasum": "0f45adce1728091b289597035c1ad25a5ba549be",
"_from": "validate-npm-package-license@1.0.0-prerelease-2",
"_npmVersion": "1.4.28",
"_npmUser": {
    "name": "kemitchell",
    "email": "kyle@kemitchell.com"
},
"maintainers": [{
    "name": "kemitchell",
    "email": "kyle@kemitchell.com"
}]
},
"dist": {
    "shasum": "0f45adce1728091b289597035c1ad25a5ba549be",
    "tarball": "http://registry.npmjs.org/validate-npm-package-license/-/validate-npm-package-license-1.0.0-prerelease-2.tgz"
},
"directories": {},
"_resolved": "https://registry.npmjs.org/validate-npm-package-license/-/validate-npm-package-license-1.0.0-prerelease-2.tgz",
"readme": "ERROR: No README data found!"
}

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wcwidth.js: JavaScript Porting of Markus Kuhn's wcwidth() Implementation
=======================================================================

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This package is a JavaScript porting of `wcwidth()` implementation
(by Markus Kuhn)[http://www.cl.cam.ac.uk/~mgk25/ucs/wcwidth.c].

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8. [9]Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver
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18. [19]Dennis Ferguson <dennis@mrbill.canet.ca> foundation code for NTP Version 2 as specified in RFC-1119
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29. [32] Johannes Maximilian Kuehn <kuehn@ntp.org> Rewrote sntp to comply with NTPv4 specification, ntpq saveconfig
30. [33] William L. Jones <jones@hermes.chpc.utexas.edu> RS/6000 AIX modifications, HPUX modifications
31. [34] Dave Katz <dkatz@cisco.com> RS/6000 AIX port
32. [35] Craig Leres <leres@ee.lbl.gov> 4.4BSD port, ppsclock, Magnavox GPS clock driver
33. [36] George Lindholm <lindholm@ucs.ubc.ca> SunOS 5.1 port
34. [37] Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
35. [38] Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
36. [39] Danny Mayer <mayer@ntp.org> Network I/O, Windows Port, Code Maintenance
37. [40] David L. Mills <mills@udel.edu> Version 4 foundation, precision kernel; clock drivers: 1, 3, 4, 6, 7, 11, 13, 18, 19, 22, 36
38. [41] Wolfgang Moeller <moeller@gwdg1.dnet.gwdg.de> VMS port
39. [42] Jeffrey Mogul <mogul@pa.dec.com> ntptrace utility
40. [43] Tom Moore <tmoore@fievel.daytonoh.ncr.com> i386 svr4 port
41. [44] Kamal A Mostafa <kamal@whence.com> SCO OpenServer port
42. [45] Derek Mulcahy <derek@toybox.demon.co.uk> and [46] Damon Hart-Davis <d@hd.org> ARCRON MSF clock driver
43. [47] Rob Neal <neal@ntp.org> Bancomm refclock and config/parse code maintenance
44. [48] Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de> monitoring/trap scripts, statistics file handling
45. [49] Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
46. [50] Wilfredo Sanchez <wsanchez@apple.com> added support for NetInfo
47. [51] Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
48. [52] Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/subdirectory
49. [53] Ray Schnitzler <schnitz@unipress.com> Unixware1 port
50. [54] Michael Shields <shields@tembel.org> USNO clock driver
51. [55] Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
52. [56] Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure
makeover, various other bits (see the ChangeLog)

53. [57]Kenneth Stone <ken@sdd.hp.com> HP-UX port
54. [58]Ajit Thyagarajan <ajit@ee.udel.edu> IP multicast/anycast support
55. [59]Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp> TRAK clock driver
56. [60]Brian Utterback <brian.utterback@oracle.com> General codebase, Solaris issues
57. [61]Loganaden Velvindron <loganaden@gmail.com> Sandboxing (libseccomp) support
58. [62]Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver
59. [63]Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD

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The following individuals contributed in part to the Network Time Protocol Distribution Version 4 and are acknowledged as authors of this work.

1. [1] Takao Abe <takao_abe@xurb.jp> Clock driver for JJY receivers
2. [2] Mark Andrews <mark_andrews@isc.org> Leitch atomic clock controller
3. [3] Bernd Altmeier <altmeier@atlast.de> hopf Elektronik serial line and PCI-bus devices
5. [6] Michael Barone <michael.barone@lmco.com> GPSVME fixes
6. [7] Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
7. [8] Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.
8. [9] Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver
9. [10] Piete Brooks <Piete.Brooks@cl.cam.ac.uk> MSF clock driver, Trimble PARSE support
10. [11] Nelson B Bolyard <nelson@bolyard.me> update and complete broadcast and crypto features in sntp
11. [12] Jean-Francois Boudreault <Jean-Francois.Boudreault@viagenie.qc.ca> IPv6 support
12. [13] Reg Clemens <reg@dwf.com> Oncore driver (Current maintainer)
13. [14] Steve Clift <clift@ml.csiro.au> OMEGA clock driver
14. [15] Casey Crellin <casey@csc.co.za> vxWorks (Tornado) port and help with target configuration
15. [16] Sven Dietrich <sven_dietrich@trimble.com> Palisade reference clock driver, NT adj. residuals, integrated Greg’s Winnt port.
17. [18] Torsten Duwe <duwe@immd4.informatik.uni-erlangen.de> Linux port
18. [19] Dennis Ferguson <dennis@mrbill.canet.ca> foundation code for NTP Version 2 as specified in RFC-1119
19. [20] John Hay <jhay@icomtek.csir.co.za> IPv6 support and testing
20. [21] Dave Hart <davehart@davehart.com> General maintenance, Windows port interpolation rewrite
21. [22] Claas Hilbrecht <neoclock4x@linum.com> NeoClock4X clock driver
22. [23] Glenn Hollinger <glen@herald.usask.ca> GOES clock driver
23. [24] Mike Iglesias <iglesias@uci.edu> DEC Alpha port
24. [25] Jim Jagielski <jim@jagubox.gsfc.nasa.gov> A/UX port
25. [26] Jeff Johnson <jbj@chatham.usdesign.com> massive prototyping overhaul
26. [27] Hans Lambermont <Hans.Lambermont@nl.origin-it.com> or
27. [28] H.Lambermont@chello.nl> ntpsweep
29. [29] Poul-Henning Kamp <phk@FreeBSD.ORG> Oncore driver (Original author)
31. [32] Johannes Maximilian Kuehn <kuehn@ntp.org> Rewrote sntp to comply with NTPv4 specification, ntpq saveconfig
32. [33] William L. Jones <jones@hermes.chpc.utexas.edu> RS/6000 AIX modifications, HPUX modifications
34. [35] Craig Leres <leres@ee.lbl.gov> 4.4BSD port, ppsclock, Magnavox GPS clock driver
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43. [43] Tom Moore <tmoore@fievel.daytonoh.ncr.com> i386 svr4 port
44. [44] Kamal A Mostafa <kamal@whence.com> SCO OpenServer port
45. [45] Derek Mulcahy <derek@toybox.demon.co.uk> and [46] Damon Hart-Davis <d@hd.org> ARCRON MSF clock driver
47. [47] Rob Neal <neal@ntp.org> Bancomm refclock and config/parse code maintenance
48. [48] Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de> monitoring/trap scripts, statistics file handling
49. [49] Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
50. [50] Wilfredo Sanchez <wsanchez@apple.com> added support for NetInfo
51. [51] Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
52. [52] Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
53. [53] Ray Schnitzler <schnitz@unipress.com> Unixware1 port
54. [54] Michael Shields <shields@tembel.org> USNO clock driver
55. [55] Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock
driver

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    various other bits (see the ChangeLog)
53. [57] Kenneth Stone <ken@sdd.hp.com> HP-UX port
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57. [61] Loganaden Velvindron <loganaden@gmail.com> Sandboxing
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/* -.*- Mode: Text -.*- */

copyright = {
    date  = "1992-2017";
    owner = "The University of Delaware and Network Time Foundation";
    eaddr = "http://bugs.ntp.org, bugs@ntp.org";
    type  = ntp;
};
long-opts;
config-header = config.h;
environrc;
no-misuse-usage;
version-proc = ntpOptionPrintVersion;

version = `eval VERSION=`\$\( sed -e 's/\.,*/\,\]/ -e 's/\]*/]/ < ../sntp/m4/version.m4`\n[-2 "$\{VERSION\}"] && echo "Cannot determine VERSION" && kill -TERM $AG_pid
echo $VERSION`;

version-value = "/"/* Don't use -v as a shortcut for --version */
/*
* HMS: man pages already have this, and texi pages can use the
* values in sntp/include/version.texi .
*/
decl-sub = {
    sub-name = version;
    sub-text = '/\$\{VERSION\}/<<version>>/g';
    }

<html>
<head>
<meta http-equiv="content-type" content="text/html;charset=iso-8859-1">
<title>Copyright Notice</title>
<!-- Changed by: Harlan Stenn, 10-Mar-2014 -->
<link href="scripts/style.css" type="text/css" rel="stylesheet">
</head>
<body>
<h3>Copyright Notice</h3>
<img src="pic/sheepb.jpg" alt="jpg" align="left"> "Clone me," says Dolly sheepishly.
<p>Last update:
<!-- #BeginDate format:En2m -->2-Jan-2017  11:58<!-- #EndDate -->
UTC</p>
<br clear="left">
<br>
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<pre>
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Clock driver for JJY receivers

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Viraj Bais <vbais@mailman1.intel.co> and Clayton Kirkwood <kirkwood@striderfm.intel.com> port to Windows NT 3.5

Michael Barone <michael.barone@lmco.com> GPSVME fixes

Piete Brooks <Piete.Brooks@cl.cam.ac.uk> MSF clock driver, Trimble PARSE support

Nelson B Bolyard <nelson@bolyard.me> update and complete broadcast and crypto features in snntp

Jean-Francois Boudreault <Jean-Francois.Boudreault@viagenie.qc.ca> IPv6 support

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(driver 14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling

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Rewrote stntpd

to comply with NTPv4 specification, <t>ntpq saveconfig</t>

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MD5-based authentication

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adaptation of foundation code for Version 3 as specified in RFC-1305

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39. [42] Tom Moore <tmoore@fievel.daytonoh.ncr.com> i386 svr4 port
40. [43] Kamal A Mostafa <kamal@whence.com> SCO OpenServer port
41. [44] Derek Mulcahy <derek@toybox.demon.co.uk> and [45] Damon Hart-Davis <d@hd.org> ARCRON MSF clock driver
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43. [47] Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de> monitoring/trap scripts, statistics file handling
44. [48] Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
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51. [55] Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
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to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
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The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.
/* -*- Mode: Text -*- */

copyright = {
    date = "1970-2011";
    owner = "David L. Mills and/or others";
    eaddr = "http://bugs.ntp.org, bugs@ntp.org";
    type = note;
    text = <<- _EndOfDoc_
see html/copyright.html

_EndOfDoc_;}

long-opts;
config-header = config.h;
environrc;
no-misuse-usage;

version = `eval VERSION=`sed -e 's/.*,\[//' -e 's/\].*//' < ../version.m4`
[ -z "$VERSION" ] && echo "Cannot determine VERSION" && kill -TERM $AG_pid
    echo "$VERSION";

version-value = "/* Don't use -v as a shortcut for --version */
ntpstat is released under the terms of the GNU
General Public License version 2 (http://www.fsf.org/)
ttpstat is copyright (c) G. Richard Keech 2001

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Version 3, 29 June 2007

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- Bernd Altmeier (altmeier@atlsoft.de) - hopf Elektronik serial line and PCI-bus devices
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- Michael Barone (michael.barone@lmco.com) - GPSVME fixes
- Karl Berry (karl@owl.HQ.ileaf.com) - syslog to file option
- Greg Brackley (greg.brackley@bigfoot.com) - Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.
- Marc Brett (Marc.Brett@westgeo.com) - Magnavox GPS clock driver
- Pietro Brooks (Pietro.Brooks@cl.cam.ac.uk) - MSF clock driver, Trimble PARSE support
- Nelson Bolyard (nelson@bolyard.me) - update and complete broadcast and crypto features in snntp
Jean-Francois Boudreault

IPv6 support

Reg Clemens

Oncore driver (Current maintainer)

OMEGA clock driver

Jean-Francois Boudreault

vxWorks (Tornado) port and help with target configuration

Sven Dietrich

Palisade reference clock driver, NT adj. residuals, integrated Greg's Winnt port.

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Apple A/UX port

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Linux port

Dennis Ferguson

foundation code for NTP Version 2 as specified in RFC-1119

John Hay

IPv6 support and testing

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Neoclock4X clock driver

Glenn Hollinger

GOES clock driver

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DEC Alpha port

Jim Jagielski

A/UX port

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10. Nelson B Bolyard <nelson@bolyard.me> update and complete broadcast and crypto features in sntp
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GPS clock driver
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34. [37] Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
35. [38] Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
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45. [49] Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
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3. [3]Bernd Altmeier <altmeier@atlsoft.de> hopf Elektronik serial line and PCI-bus devices
5. [6]Michael Barone <michael.barone@lmco.com> GPSVME fixes
6. [7]Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
7. [8]Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.
8. [9]Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver
9. [10]Piete Brooks <Piete.Brooks@cl.cam.ac.uk> MSF clock driver, Trimble PARSE support
10. [11]Nelson B Bolyard <nelson@bolyard.me> update and complete broadcast and crypto features in sntp
11. [12]Jean-Francois Boudreault <Jean-Francois.Boudreault@viagenie.qc.ca> IPv6 support
12. [13]Reg Clemens <reg@dwf.com> Oncore driver (Current maintainer)
13. [14]Steve Clift <clift@ml.csiro.au> OMEGA clock driver
14. [15]Casey Crellin <casey@csc.co.za> vxWorks (Tornado) port and help with target configuration
15. [16]Sven Dietrich <sven_dietrich@trimble.com> Palisade reference clock driver, NT adj. residuals, integrated Greg’s Winnt port.
17. [18]Torsten Duwe <duwe@immd4.informatik.uni-erlangen.de> Linux port
18. [19]Dennis Ferguson <dennis@mrbill.canet.ca> foundation code for NTP Version 2 as specified in RFC-1119
19. [20]John Hay <jhay@icomtek.csir.co.za> IPv6 support and testing
20. [21]Dave Hart <davehart@davehart.com> General maintenance, Windows port interpolation rewrite
21. [22]Claas Hilbrecht <neoclock4x@linum.com> NeoClock4X clock driver
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23. [24]Mike Iglesias <iglesias@uci.edu> DEC Alpha port
24. [25]Jim Jagielski <jim@jagubox.gsfc.nasa.gov> A/UX port
25. [26]Jeff Johnson <bjh@chatham.usdesign.com> massive prototyping overhaul
26. [27]Hans Lambermont <Hans.Lambermont@nl.origin-it.com> or
   [28]<H.Lambermont@chello.nl> ntpsweep
27. [29]Poul-Henning Kamp <phk@FreeBSD.ORG> Oncore driver (Original author)
   (driver 14 reference clocks), STREAMS modules for PARSE, support
   scripts, syslog cleanup, dynamic interface handling
29. [32]Johannes Maximilian Kuehn <kuehn@ntp.org> Rewrote sntp to comply with NTPv4 specification, ntpq saveconfig
30. [33]William L. Jones <jones@hermes.chpc.utexas.edu> RS/6000 AIX modifications, HPUX modifications
31. [34]Dave Katz <dkatz@cisco.com> RS/6000 AIX port
32. [35]Craig Leres <leres@ee.lbl.gov> 4.4BSD port, ppsclock, Magnavox GPS clock driver
33. [36]George Lindholm <lindholm@ucs.ubc.ca> SunOS 5.1 port
34. [37]Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
35. [38]Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
36. [39]Danny Mayer <mayer@ntp.org> Network I/O, Windows Port, Code Maintenance
37. [40]David L. Mills <mills@udel.edu> Version 4 foundation, precision kernel; clock drivers: 1, 3, 4, 6, 7, 11, 13, 18, 19, 22, 36
38. [41]Wolfgang Moeller <moeller@gwdg1.dnet.gwdg.de> VMS port
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41. [44]Kamal A Mostafa <kamal@whence.com> SCO OpenServer port
42. [45]Derek Mulcahy <derek@toybox.demon.co.uk> and [46]Damon Hart-Davis <d@hd.org> ARCRON MSF clock driver
43. [47]Rob Neal <neal@ntp.org> Bancomm refclock and config/parse code maintenance
44. [48]Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de> monitoring/trap scripts, statistics file handling
45. [49]Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
46. [50]Wilfredo Sanchez <wsanchez@apple.com> added support for NetInfo
47. [51]Nick Sayer <nrapple@quack.kfu.com> SunOS streams modules
48. [52]Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
49. [53]Ray Schnitzler <schnitz@unipress.com> Unixware1 port
50. [54]Michael Shields <shields@tembel.org> USNO clock driver
51. [55]Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
52. [56]Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure
    makeover, various other bits (see the ChangeLog)
53. [57]Kenneth Stone <ken@sdd.hp.com> HP-UX port
54. [58]Ajit Thyagarajan <ajit@ee.udel.edu> IP multicast/anycast
    support
55. [59]Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp> TRAK clock
    driver
56. [60]Brian Utterback <brian.utterback@oracle.com> General codebase,
    Solaris issues
57. [61]Loganaden Velvindron <loganaden@gmail.com> Sandboxing
    (libseccomp) support
58. [62]Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic
    TrueTime clock driver
59. [63]Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and
    validated HTML documents according to the HTML DTD

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3. [3]Bernd Altmeier <altmeier@atlsoft.de> hopf Elektronik serial line and PCI-bus devices
5. [6]Michael Barone <michael.barone@lmco.com> GPSVME fixes
6. [7]Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
7. [8]Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.
8. [9]Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver
9. [10]Piete Brooks <Piete.Brooks@cl.cam.ac.uk> MSF clock driver, Trimble PARSE support
10. [11]Nelson B Bolyard <nelson@bolyard.me> update and complete broadcast and crypto features in sntp
11. [12]Jean-Francois Boudreault <Jean-Francois.Boudreault@viagenie.qc.ca> IPv6 support
12. [13]Reg Clemens <reg@dwf.com> Oncore driver (Current maintainer)
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24. [25]Jim Jagielski <jim@jagubox.gsfc.nasa.gov> A/UX port
25. [26]Jeff Johnson <jbj@chatham.usdesign.com> massive prototyping overhaul
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27. [29]Poul-Henning Kamp <phk@FreeBSD.ORG> Oncore driver (Original author)
28. [30]Frank Kardel [31]<kardel (at) ntp (dot) org> PARSE <GENERIC> (driver 14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling
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47. [51] Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules

48. [52] Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory

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10. [11]Nelson B Bolyard <nelson@bolyard.me> update and complete broadcast and crypto features in sntp
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59. [63] Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD

References

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The following individuals contributed in part to the Network Time Protocol Distribution Version 4 and are acknowledged as authors of
this work.
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2. [2]Mark Andrews <mark_andrews@isc.org> Leitch atomic clock controller
3. [3]Bernd Altmeyer <altmeier@atlssoft.de> hopf Elektronik serial line and PCI-bus devices
5. [6]Michael Barone <michael.barone@lmco.com> GPSVME fixes
6. [7]Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
7. [8]Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.
8. [9]Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver
9. [10]Piete Brooks <Piete.Brooks@cl.cam.ac.uk> MSF clock driver, Trimble PARSE support
10. [11]Nelson B Bolyard <nelson@bolyard.me> update and complete broadcast and crypto features in sntp
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13. [14]Steve Clift <clift@nl.csiro.au> OMEGA clock driver
14. [15]Casey Crellin <casey@csc.co.za> vxWorks (Tornado) port and help with target configuration
15. [16]Sven Dietrich <sven_dietrich@trimble.com> Palisade reference clock driver, NT adj. residuals, integrated Greg's Winnt port.
17. [18]Torsten Duwe <duwe@immd4.informatik.uni-erlangen.de> Linux port
18. [19]Dennis Ferguson <dennis@mrbill.canet.ca> foundation code for NTP Version 2 as specified in RFC-1119
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25. [26]Jeff Johnson < jbj@chatham.usdesign.com> massive prototyping overhaul
26. [27]Hans Lambermont < Hans.Lambermont@nl.origin-it.com> or <H.Lambermont@chello.nl> ntpswEEP
27. [29]Poul-Henning Kamp < phk@FreeBSD.ORG> Oncore driver (Original author)
28. [30]Frank Kardel [31]<kardel (at) ntp (dot) org> PARSE <GENERIC> (driver 14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling
29. [32]Johannes Maximilian Kuehn < kuehn@ntp.org> Rewrote sntp to comply with NTPv4 specification, ntpq saveconfig
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43. [47] Rob Neal <neal@ntp.org> Bancomm refclock and config/parse code maintenance
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46. [50] Wilfredo Sanchez <wsanchez@apple.com> added support for NetInfo
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49. [53] Ray Schnitzler <schnitz@unipress.com> Unixware1 port
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validated HTML documents according to the HTML DTD

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The following individuals contributed in part to the Network Time Protocol Distribution Version 4 and are acknowledged as authors of this work.

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3. [3]Bernd Altmeier <altmeier@atlsoft.de> hopf Elektronik serial line and PCI-bus devices
5. [6]Michael Barone <michael.barone@lmco.com> GPSVME fixes
6. [7]Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
7. [8]Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.
8. [9]Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver
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10. [11]Nelson B Bolyard <nelson@bolyard.me> update and complete broadcast and crypto features in sntp
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14. [15]Casey Crellin <casey@csc.co.za> vxWorks (Tornado) port and help with target configuration
15. [16]Sven Dietrich <sven_dietrich@trimble.com> Palisade reference clock driver, NT adj. residuals, integrated Greg's Winnt port.
17. [18]Torsten Duwe <duwe@immd4.informatik.uni-erlangen.de> Linux port
18. [19]Dennis Ferguson <dennis@mrbill.canet.ca> foundation code for...
NTP Version 2 as specified in RFC-1119
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41. [44]Derek Mulcahy <derek@toybox.demon.co.uk> and [45]Damon Hart-Davis <d@hd.org> ARCRON MSF clock driver
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45. [49]Wilfredo Sanchez <wsanchez@apple.com> added support for NetInfo
46. [50]Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
47. [51]Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
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49. [53] Michael Shields <shields@tembel.org> USNO clock driver
50. [54] Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
51. [55] Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure
    makeover, various other bits (see the ChangeLog)
52. [56] Kenneth Stone <ken@sdd.hp.com> HP-UX port
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56. [60] Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and
    validated HTML documents according to the HTML DTD

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43. mailto:%20kanal@whence.com
44. mailto:%20derek@toybox.demon.co.uk
45. mailto:%20d@hd.org
46. mailto:%20neal@ntp.org
47. mailto:%20Rainer.Pruy@informatik.uni-erlangen.de
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when it starts in an interactive mode:

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parts of the General Public License. Of course, the commands you use may
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school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

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`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.
/* -*- Mode: Text -*- */
copyright = {
  date  = "1970-2011";
  owner = "David L. Mills and/or others";
  eaddr = "http://bugs.ntp.org, bugs@ntp.org";
  type  = note;
  text  = <<- _EndOfDoc_
    see html/copyright.html
    _EndOfDoc_;
};

long-opts;
config-header = config.h;
environrc;
no-misuse-usage;

version = `eval VERSION=`\`sed -e 's/,.*,\[//' -e 's/\].*//' < ../version.m4` 
[ -z "${VERSION}" ] && echo "Cannot determine VERSION" && kill -TERM $AG_pid 
echo "\$VERSION";

version-value = "/*/ Don’t use -v as a shortcut for --version */
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Open-vm-tools v10.2.5
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* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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/* OPENBSD ORIGINAL: sys/sys/poll.h */

#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#ifndef_COMPAT_POLL_H_
#define_COMPAT_POLL_H_

typedef struct pollfd {
  int fd;
  short events;
  short revents;
```
typedef unsigned int nfds_t;

#define POLLIN 0x0001
#define POLLOUT 0x0004
#define POLLERR 0x0008
#define POLLHUP 0x0010
#define POLLNVAL 0x0020
#if 0
/* the following are currently not implemented */
#define POLLPRI 0x0002
#define POLLRDNORM 0x0040
#define POLLNORM POLLRDNORM
#define POLLWRNORM POLLOUT
#define POLLRDBAND 0x0080
#define POLLWRBAND 0x0100
#endif

#define INFTIM (-1) /* not standard */

int poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */

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*/

#ifndef HAVE_SETRESGID
int setresgid(gid_t, gid_t, gid_t);
#endif
#ifndef HAVE_SETRESUID
int setresuid(uid_t, uid_t, uid_t);
#endif

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*/

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H
#endif

#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#define WIFEXITED
#define WIFSTOPPED
#define WIFSIGNALED

#define _W_INT(w) (*(int*)(&(w))) /* convert union wait to int */
#define WIFEXITED(w) (!(_W_INT(w)) & 0377)
#define WIFSTOPPED(w) ((_W_INT(w)) & 0100)
#define WIFSIGNALED(w) (!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w) (int)(WIFEXITED(w) ? ((_W_INT(w)) >> 8) & 0377) : -1)
#define WTERMSIG(w) (int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG 0x80
#define WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)

/* Prototype */
pid_t waitpid(int, int *, int);
#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */
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1.1014 openssh 6.6.1p1 :25.el7_2

1.1015 openssh 7.4p1 :16.el7

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diff -up openssh-7.4p1/sftp-server.8.sftp-force-mode openssh-7.4p1/sftp-server.8
--- openssh-7.4p1/sftp-server.8.sftp-force-mode 2016-12-19 05:59:41.000000000 +0100
+++ openssh-7.4p1/sftp-server.82017-02-09 10:35:41.926475399 +0100
@@ -38,6 +38,7 @@
  .Op Fl P Ar blacklisted_requests
  .Op Fl p Ar whitelisted_requests
  .Op Fl u Ar umask
+.Op Fl m Ar force_file_perms
  .Ek
  .Nm
  .Fl Q Ar protocol_feature
@@ -138,6 +139,10 @@
    Set an explicit umask 2
to be applied to newly-created files and directories, instead of the
user's default mask.
+.It Fl m Ar force_file_perms
+Sets explicit file permissions to be applied to newly-created files instead
+of the default or client requested mode. Numeric values include:
+777, 755, 750, 666, 644, 640, etc. Option -u is ineffective if -m is set.
.El
.Pp
On some systems,
diff -up openssh-7.4p1/sftp-server.c.sftp-force-mode openssh-7.4p1/sftp-server.c
--- openssh-7.4p1/sftp-server.c.sftp-force-mode 2017-02-09 10:22:36.498019921 +0100
+++ openssh-7.4p1/sftp-server.c2017-02-09 10:35:07.190520959 +0100
@@ -65,6 +65,10 @@
  /* Version of client */
  static u_int version;
  +/* Force file permissions */
  +int permforce = 0;
  +long permforcemode;
  +
  /* SSH2_FXP_INIT received */
static int init_done;

@@ -679,6 +683,7 @@ process_open(u_int32_t id)
    Atrib a;
    char *name;
    int r, handle, fd, flags, mode, status = SSH2_FX_FAILURE;
    +mode_t old_umask = 0;

    if ((r = sshbuf_get_cstring(iqueue, &name, NULL)) != 0 ||
        (r = sshbuf_get_u32(iqueue, &pflags)) != 0 || /* portable flags */
        @@ -688,6 +693,10 @@ process_open(u_int32_t id)
        debug3("request \%u: open flags \%d", id, pflags);
    flags = flags_from_portable(pflags);
    mode = (a.flags & SSH2_FILEXFER_ATTR_PERMISSIONS) ? a.perm : 0666;
    +if (permforce == 1) { /* Force perm if -m is set */
    +mode = permforcemode;
    +old_umask = umask(0); /* so umask does not interfere */
    +}
    logit("open \"%s\" flags %s mode 0%o",
        name, string_from_portable(pflags), mode);
    if (readonly &&
        @@ -709,6 +718,8 @@ process_open(u_int32_t id)
            }
            }

    +if (permforce == 1)
    +(void) umask(old_umask); /* restore umask to something sane */
    if (status != SSH2_FX_OK)
        send_status(id, status);
    free(name);
    @@ -1490,7 +1501,7 @@ sftp_server_usage(void)
    fprintf(stderr,
        "usage: %s [-ehR] [-d start_directory] [-f log_facility] 
        [-l log_level][-P blacklisted_requests] 
        [-p whitelisted_requests] [-u umask]n"
        + "[-p whitelisted_requests] [-u umask] [-m force_file_perms]n"
        + " %s -Q protocol_feature\n",
        __progname, __progname);
    exit(1);
    @@ -1516,7 +1527,7 @@ sftp_server_main(int argc, char **argv,
    pw = pwcopy(user_pw);

    while (!skipargs && (ch = getopt(argc, argv,
            switch (ch) {
            case 'Q':
                if (strcmp(optarg, "requests") != 0) {


```c
@@ -1576,6 +1587,15 @@
 fatal("Invalid umask \"%s\", optarg);
 (void)umask((mode_t)mask);
 break;
+case 'm':
+/* Force permissions on file received via sftp */
+permforce = 1;
+permforcemode = strtol(optarg, &cp, 8);
+if (permforcemode < 0 || permforcemode > 0777 ||
+    *cp != '>' || (permforcemode == 0 &&
+    errno != 0))
+    fatal("Invalid file mode \"%s\", optarg);
+break;
 case 'h':
 default:
    sftp_server_usage();
/#
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#ifndef HAVE_SETRESGID
int	setresgid(gid_t, gid_t, gid_t);
#endif
#ifndef HAVE_SETRESUID
int	setresuid(uid_t, uid_t, uid_t);
#endif
/*$OpenBSD: poll.h,v 1.11 2003/12/10 23:10:08 millert Exp $*/

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/* OPENBSD ORIGINAL: sys/sys/poll.h */

#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#ifndef _COMPAT_POLL_H_
#define _COMPAT_POLL_H_

typedef struct pollfd {
    int fd;
    short events;
    short revents;
} pollfd_t;

typedef unsigned int nfds_t;

#define POLLIN0x0001
#define POLLOUT0x0004
#define POLLERR0x0008
#define POLLHUP0x0010
#define POLLNVAL0x0020
#if 0
/* the following are currently not implemented */
#define POLLPRI0x0002
#define POLLRDND0x0040
#define POLLNORMPOLLRDND0
#define POLLRW0NORM POLLOUT
#define POLLRDBAND0x0080
#define POLLWRBAND0x0100
#endif

#define INFTIM(-1)/* not standard */
int poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */
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 *
 */

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED

/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w) (*((int*)&(w))) /* convert union wait to int */
#define WIFEXITED(w) (!(_W_INT(w)) & 0377)
#define WIFSTOPPED(w) ((_W_INT(w)) & 0100)
#define WIFSIGNALED(w) (!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w) (int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
#define WTERMSIG(w) (int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG 0x80
#define WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)

/* Prototype */
#endif /* HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */
pid_t waitpid(int, int *, int);

#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */

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* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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/* OPENBSD ORIGINAL: sys/sys/poll.h */

#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#undef_COMPAT_POLL_H_
#define_COMPAT_POLL_H_

typedef struct pollfd {
    int fd;
    short events;
    short revents;
} pollfd_t;

typedef unsigned int nfds_t;

#define POLLIN 0x0001
#define POLLOUT 0x0004
#define POLLERR 0x0008
#if 0
/* the following are currently not implemented */
#define POLLPRI 0x0002
#define POLLHUP 0x0010
#define POLLNVAL 0x0020
#define POLLRD 0x0040
#endif
#define POLLNORM POLLRDNORM
#define POLLWRNORM POLLOUT
#define POLLRDBAND 0x0080
#define POLLWRBAND 0x0100
#endif

#define INFTIM (-1) /* not standard */

int poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H */
#endif /* !HAVE_POLL_H */

/* $Id: bsd-waitpid.h,v 1.5 2003/08/29 16:59:52 mouring Exp $ */

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 *
 */

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSIGNALED
#endif

/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w) (*(int*)&(w)) /* convert union wait to int */
#define WIFEXITED(w)!(_W_INT(w) & 0377))
#define WIFSTOPPED(w)(_W_INT(w)) & 0100)
#define WIFSIGNALED(w)!WIFEXITED(w) & !WIFSTOPPED(w))
#define WEXITSTATUS(w)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
#define WTERMSIG(w)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG 0x80
#define WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)

/* Prototype */
pid_t waitpid(int, int *, int);

#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */

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* Foremost, OpenSSH from which this project is derived.
* Jamie Beverly
* Rafael D'Halleweyn - 2011-06-05 18:56:24 EDT
* Jan-Pieter Cornet ( johnpc ) - 2012-03-23 03:25:52 PDT
* chrysn@fsfe.org
* dfberger@users.noreply.github.com

1.1016 openssh 6.6.1p1 :23.el7_2

1.1017 openssh 7.5.14i.1.5.18-
20190711003359.el7

1.1017.1 Available under license :
/*$OpenBSD: poll.h,v 1.11 2003/12/10 23:10:08 millert Exp $#*/

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/* OPENBSD ORIGINAL: sys/sys/poll.h */

#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#ifndef _COMPAT_POLL_H_
#define _COMPAT_POLL_H_

typedef struct pollfd {
    int fd;
    short events;
    short revents;
} pollfd_t;

typedef unsigned int nfds_t;

#define POLLIN 0x0001
#define POLLOUT 0x0004
#define POLLERR 0x0010
#define POLLHUP 0x0020
#define POLLNVAL 0x0040

#if 0
/* the following are currently not implemented */
#define POLLPRIO 0x0002
#define POLLRD NORM 0x0040
#define POLLNORMPOLLRDNORM
#define POLLWRNORM POLLOUT
#define POLLRDBAND 0x0080
#define POLLRDBAND 0x0100
#endif

#define INFTIM (-1)/* not standard */

int poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */
/*
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 */

#ifndef HAVE_SETRESGID
int setresgid(gid_t, gid_t, gid_t);
#endif
#ifndef HAVE_SETRESUID
int setresuid(uid_t, uid_t, uid_t);
#endif
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 *
 */

#ifndef BSD_WAITPID_H

#endif

Open Source Used In Application Centric Infrastructure Service Engine (ACI-SE) 1.1
25217
#define _BSD_WAITPID_H

#define HAVE_WAITPID

/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED

/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w)(*(int*)&(w)) /* convert union wait to int */
#define WIFEXITED(w) (!(_W_INT(w)) & 0377)
#define WIFSTOPPED(w)((_W_INT(w)) & 0100)
#define WIFSIGNALED(w) (!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w) (int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
#define WTERMSIG(w) (int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG 0x80
#define WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)

/* Prototype */
pid_t waitpid(int, int *, int);

#endif /* HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */

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* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>  
* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>  
* @author Paulo Barreto <paulo.barreto@terra.com.br>  
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------
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#! /bin/sh
# Attempt to guess a canonical system name.
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timestamp='2016-05-15'

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# Originally written by Per Bothner; maintained since 2000 by Ben Elliston.

# You can get the latest version of this script from:
# http://git.savannah.gnu.org/gitweb/?p=config.git;a= blob_plain;f=config.guess

# Please send patches to <config-patches@gnu.org>.

me=`echo "$0" | sed -e 's,.*/,,'`

usage="
Usage: $0 [OPTION]

Output the configuration name of the system `$me` is run on.

Operation modes:
- -h, --help print this help, then exit
- -t, --time-stamp print date of last modification, then exit
- -v, --version print version number, then exit

Report bugs and patches to <config-patches@gnu.org>.
"

version="
GNU config.guess ($timestamp)

Originally written by Per Bothner.
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help="
Try `$me --help` for more information."

# Parse command line
while test $# -gt 0 ; do
case $1 in
  --time-stamp | --time* | -t )
    echo "$timestamp" ; exit ;;
  --version | -v )
    echo "$version" ; exit ;;
  --help | --h* | -h )
    echo "$usage"; exit ;;
  $(usage) )
    echo "$usage"; exit ;;
  *)
    echo "$usage"; exit ;;
esac
done
-- )   # Stop option processing
  shift; break ;;
- )# Use stdin as input.
  break ;;
-*)
  echo "$me: invalid option $1$help" >&2
  exit 1 ;;
*)
  break ;;
esac
done

if test $# != 0; then
  echo "$me: too many arguments$help" >&2
  exit 1
fi

trap 'exit 1' 1 2 15

# CC_FOR_BUILD -- compiler used by this script. Note that the use of a
# compiler to aid in system detection is discouraged as it requires
# temporary files to be created and, as you can see below, it is a
# headache to deal with in a portable fashion.

# Historically, `CC_FOR_BUILD' used to be named `HOST_CC'. We still
# use `HOST_CC' if defined, but it is deprecated.

# Portable tmp directory creation inspired by the Autoconf team.

set_cc_for_build='
trap "exitcode=$?; (rm -f $tmpfiles 2>/dev/null; rmdir $tmp 2>/dev/null) && exit $exitcode" 0 ;
trap "rm -f $tmpfiles 2>/dev/null; rmdir $tmp 2>/dev/null; exit 1" 1 2 13 15 ;
  : ${TMPDIR=/tmp} ;
  { tmp=`(umask 077 && mktemp -d "$TMPDIR/cgXXXXXX") 2>/dev/null` && test -n "$tmp" && test -d "$tmp" ;}
  ||
  { test -n "$RANDOM" && tmp=$TMPDIR/cg$$-$RANDOM && (umask 077 && mkdir $tmp) ; }
  ||
  { tmp=$TMPDIR/cg-$RANDOM && (umask 077 && mkdir $tmp) && echo "Warning: creating insecure temp directory"
    >&2 ; }
  ||
  { echo "$me: cannot create a temporary directory in $TMPDIR" >&2 ; exit 1 ; }
  dummy=$tmp/dummy ;
tmpfiles="$dummy.c $dummy.o $dummy.rel $dummy" ;
case "$CC_FOR_BUILD,$HOST_CC,$CC in
   ..)
   echo "int x;" > $dummy.c ;
   for c in cc gcc c89 c99 ; do
     if ($c -c -o $dummy.o $dummy.c) >/dev/null 2>&1 ; then
       CC_FOR_BUILD="$c"; break ;
     fi ;
   done ;
if test x"$CC_FOR_BUILD" = x ; then
  CC_FOR_BUILD=no_compiler_found ;
fi ;

,,*)  CC_FOR_BUILD=$CC ;
,*,*)  CC_FOR_BUILD=$HOST_CC ;
esac ; set_cc_for_build=

# This is needed to find uname on a Pyramid OSx when run in the BSD universe.
# (ghazi@noc.rutgers.edu 1994-08-24)
if (test -f /.attbin/uname) >/dev/null 2>&1 ; then
PATH=$PATH:/.attbin ; export PATH
fi

UNAME_MACHINE=`(uname -m) 2>/dev/null` || UNAME_MACHINE=unknown
UNAME_RELEASE=`(uname -r) 2>/dev/null` || UNAME_RELEASE=unknown
UNAME_SYSTEM=`(uname -s) 2>/dev/null` || UNAME_SYSTEM=unknown
UNAME_VERSION=`(uname -v) 2>/dev/null` || UNAME_VERSION=unknown

case "${UNAME_SYSTEM}" in
  Linux|GNU|GNU/*)
  # If the system lacks a compiler, then just pick glibc.
  # We could probably try harder.
  LIBC=gnu
  eval $set_cc_for_build
  cat <<EOF > $dummy.c
  #include <features.h>
  #if defined(__UCLIBC__)
  LIBC=uclibc
  #elif defined(__dietlibc__)
  LIBC=dietlibc
  #else
  LIBC=gnu
  #endif
  EOF
  eval `$CC_FOR_BUILD -E $dummy.c 2>/dev/null | grep '^LIBC' | sed 's, ,,g'`
  ;;
  esac
  # Note: order is significant - the case branches are not exclusive.
  esac

  case "${UNAME_MACHINE}:${UNAME_SYSTEM}:${UNAME_RELEASE}:${UNAME_VERSION}" in
    *:NetBSD:*:*)
    # NetBSD (nbsd) targets should (where applicable) match one or
    # more of the tuples: *-*-netbsdelf*, *-*-netbsdelfaout*,
    # *-*-netbsdcoff* and *-*-netbsd*. For targets that recently
    # switched to ELF, *-*-netbsd* would select the old
# object file format. This provides both forward
# compatibility and a consistent mechanism for selecting the
# object file format.
#
# Note: NetBSD doesn't particularly care about the vendor
# portion of the name. We always set it to "unknown".

sysctl="sysctl -n hw.machine_arch"

UNAME_MACHINE_ARCH="\$(uname -p 2>/dev/null ||
   /sbin/sysctl 2>/dev/null ||
   /usr/sbin/sysctl 2>/dev/null ||
   echo unknown)"

case "$UNAME_MACHINE_ARCH" in
  armelb) machine=armelb-unknown ;;
  arm*) machine=arm-unknown ;;
  sh3el) machine=sh3el-unknown ;;
  sh3eb) machine=sh3eb-unknown ;;
  sh5el) machine=sh5el-unknown ;;
  armv*)
    arch=`echo "$UNAME_MACHINE_ARCH" | sed -e 's,-e\(armv[0-9]\).*$,\1,'`
    endian=`echo "$UNAME_MACHINE_ARCH" | sed -ne 's,-e\(eb\).*$,\1,p'`
    machine=${arch}${endian}-unknown
  ;;
  *) machine=${UNAME_MACHINE_ARCH}-unknown ;;
esac

case "$UNAME_MACHINE_ARCH" in
  armel) machine=armel-unknown ;;
  arm*) machine=arm-unknown ;;
  sh3el) machine=sh3el-unknown ;;
  sh3eb) machine=sh3eb-unknown ;;
  sh5el) machine=sh5el-unknown ;;
  armv*)
    arch=`echo "$UNAME_MACHINE_ARCH" | sed -e 's,-e\(armv[0-9]\).*$,\1,'`
    endian=`echo "$UNAME_MACHINE_ARCH" | sed -ne 's,-e\(eb\).*$,\1,p'`
    machine=${arch}${endian}-unknown
  ;;
  *) machine=${UNAME_MACHINE_ARCH}-unknown ;;
esac

# The Operating System including object format, if it has switched
# to ELF recently (or will in the future) and ABI.
case "$UNAME_MACHINE_ARCH" in
  armv*)
    machine=${arch}${endian}-unknown
    eval $set_cc_for_build
    if echo __ELF__ | $CC_FOR_BUILD -E - 2>/dev/null \
       | grep -q __ELF__
    then
      # Once all utilities can be ECOFF (netbsdcoff) or a.out (netbsdaout).
      # Return netbsd for either. FIX?
      os=netbsd
    else
      os=netbsdelf
    fi
  ;;
  *)
    os=netbsd
  ;;
esac

case "$UNAME_MACHINE_ARCH" in

# The OS release
# Debian GNU/NetBSD machines have a different userland, and
# thus, need a distinct triplet. However, they do not need
# kernel version information, so it can be replaced with a
# suitable tag, in the style of linux-gnu.
case "${UNAME_VERSION}" in
  Debian*)
    release='-gnu'
  ;;
*)
    release='echo ${UNAME_RELEASE} | sed 's/-[^\-\_].*// | cut -d. -f1,2'
  ;;
esac
# Since CPU_TYPE-MANUFACTURER-KERNEL-OPERATING_SYSTEM:
# contains redundant information, the shorter form:
# CPU_TYPE-MANUFACTURER-OPERATING_SYSTEM is used.
echo "${machine}-${os}${release}${abi}"
echo \${UNAME_MACHINE}-unknown-sortix
exit ::;
alpha:OSF1:*:*)
case $UNAME_RELEASE in
 *4.0)
 UNAME_RELEASE="/usr/sbin/sizer -v | awk '{print $3}'"
 ::
 *5.0)
 UNAME_RELEASE="/usr/sbin/sizer -v | awk '{print $4}'"
 ::
esac
# According to Compaq, /usr/sbin/psrinfo has been available on
# OSF/1 and Tru64 systems produced since 1995. I hope that
# covers most systems running today. This code pipes the CPU
# types through head -n 1, so we only detect the type of CPU 0.
ALPHA_CPU_TYPE="/usr/sbin/psrinfo -v | sed -n -e 's/^  The alpha \(.*\) processor.*$/\1/p' | head -n 1` case "$ALPHA_CPU_TYPE" in
 "EV4 (21064)"
 UNAME_MACHINE=alpha ::
 "EV4.5 (21064)"
 UNAME_MACHINE=alpha ::
 "LCA4 (21066/21068)"
 UNAME_MACHINE=alpha ::
 "EV5 (21164)"
 UNAME_MACHINE=alphaev5 ::
 "EV5.6 (21164A)"
 UNAME_MACHINE=alphaev56 ::
 "EV5.6 (21164PC)"
 UNAME_MACHINE=alphapca56 ::
 "EV5.7 (21164PC)"
 UNAME_MACHINE=alphapca57 ::
 "EV6 (21264)"
 UNAME_MACHINE=alphaev6 ::
 "EV6.7 (21264A)"
 UNAME_MACHINE=alphaev67 ::
 "EV6.8CB (21264C)"
 UNAME_MACHINE=alphaev68 ::
 "EV6.8AL (21264B)"
 UNAME_MACHINE=alphaev68 ::
 "EV6.8CX (21264D)"
 UNAME_MACHINE=alphaev68 ::
 "EV6.9A (21264/EV69A)"
 UNAME_MACHINE=alphaev69 ::
 "EV7 (21364)"
 UNAME_MACHINE=alphaev7 ::
 "EV7.9 (21364A)"
 UNAME_MACHINE=alphaev79 ::
esac
A Pn.n version is a patched version.
A Vn.n version is a released version.
A Tn.n version is a released field test version.
A Xn.n version is an unreleased experimental baselevel.

1.2 uses "1.2" for uname -r.

```
echo ${UNAME_MACHINE}-dec-osf`echo ${UNAME_RELEASE} | sed -e 's/^[PVTX]// | tr ABCDEFGHIJKLMNOPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz'
```

Reset EXIT trap before exiting to avoid spurious non-zero exit code.

```
exitcode=0
trap "0
exit $exitcode ::
```

Alpha*:Windows_NT:*):

How do we know it's Interix rather than the generic POSIX subsystem?

Should we change UNAME_MACHINE based on the output of `uname` instead of the specific Alpha model?

```
echo alpha-pc-interix
```

```
exit ::
```

```
21064:Windows_NT:50:3)
echo alpha-dec-winn3.5
```

```
exit ::
Amiga*:UNIX_System_V:4.0:*)
eecho m68k-unknown-sysv4
```

```
echo ":[Aa]miga[Oo][Ss]:*:*)
eecho ":/[Mm]orph[Oo][Ss]:*:*)
eecho ":[OS/390:*:*)
eecho i370-ibm-openeditition
```

```
echo *:z/VM:*:*)
eecho s390-ibm-zvmoe
```

```
eecho *:[SMP_DC-OSx:*:*)
eecho powerpc-ibm-os400
```

```
echo arm:RISC*:1.[012]::*[arm:riscix:1.[012]:*:*)
eecho arm-acorn-riscix$[UNAME_RELEASE]
```

```
eecho arm*:riscos::*[arm*:RISCOS:::*)
eecho arm-unknown-riscos
```

```
exit ::
SR2?01:HI-UX/MPP:::* | SR8000:HI-UX/MPP:::*
eecho hppa1.1-hitachi-hiuxmpp
```

```
exit ::
Pyramid*:OSx:::* | MIS*:OSx:::* | MIS*:SMP_DC-OSx:::*
```
# akee@wpdis03.wpafbase.mil (Earle F. Ake) contributed MIS and NILE.
if test ""/bin/universe"" 2>/dev/null"" = att ; then
    echo pyramid-pyramid-sysv3
else
    echo pyramid-pyramid-bsd
fi
exit ;;
NILE*:.*:*:*:dcosx)
    echo pyramid-pyramid-svr4
    exit ;;
    DRS?6000:unix:4.0:6*)
    echo sparc-icl-nx6
    exit ;;
    DRS?6000:UNIX_SV:4.2*:7* | DRS?6000:isis:4.2*:7*)
    case `/usr/bin/uname -p` in
        sparc) echo sparc-icl-nx7; exit ;;
esac ;;
s390x:SunOS:.*:*)
    echo $[UNAME_MACHINE]-ibm-solaris2' echo ${UNAME_RELEASE}|sed -e 's/[\^.]*//'
    exit ;;
    sun4H:SunOS:5.*:*)
    echo sparc-hal-solaris2' echo ${UNAME_RELEASE}|sed -e 's/[\^.]*//'
    exit ;;
    sun4*:SunOS:5.*:* | tadpole*:SunOS:5.*:*)
    echo sparc-sun-solaris2' echo ${UNAME_RELEASE}|sed -e 's/[\^.]*//'
    exit ;;
    i86pc:AuroraUX:5.*:* | i86xen:AuroraUX:5.*:*)
    echo i386-pc-auroraux${UNAME_RELEASE}
    exit ;;
    i86pc:SunOS:5.*:* | i86xen:SunOS:5.*:*)
eval $set_cc_for_build
SUN_ARCH=i386
# If there is a compiler, see if it is configured for 64-bit objects.
# Note that the Sun cc does not turn _LP64_ into 1 like gcc does.
# This test works for both compilers.
if [ "$CC_FOR_BUILD" != no_compiler_found ]; then
    if (echo '#ifdef __amd64'; echo IS_64BIT_ARCH; echo '#endif') | 
        (CCOPTS="" $CC_FOR_BUILD -E - 2>/dev/null) | 
        grep IS_64BIT_ARCH >/dev/null
    then
        SUN_ARCH=x86_64
    fi
fi
exit ;;
    sun4*:SunOS:6*:*)
# According to config.sub, this is the proper way to canonicalize
# SunOS6. Hard to guess exactly what SunOS6 will be like, but
# It's likely to be more like Solaris than SunOS4.
echo sparc-sun-solaris3
`echo ${UNAME_RELEASE}|sed -e 's/[\^.\*]*/\'``
exit ;;
sun4*:SunOS:*:*)
case "*/usr/bin/arch -k" in
  Series*S4*)
  UNAME_RELEASE="'uname -v"
  esac
# Japanese Language versions have a version number like '4.1.3-JL'.
echo sparc-sun-sunos`echo ${UNAME_RELEASE}|sed -e 's/-/_/'``
exit ;;
sun3*:SunOS:*:*)
echo m68k-sun-sunos${UNAME_RELEASE}
exit ;;
sun*:*:4.2BSD:*)
UNAMERELEASE=`(sed 1q /etc/motd | awk '{print substr($5,1,3)}') 2>/dev/null`
test "x${UNAMERELEASE}" = x && UNAME_RELEASE=3
case "*/bin/arch" in
  sun3)
echo m68k-sun-sunos${UNAME_RELEASE}
  exit
  sun4)
  echo sparc-sun-sunos${UNAME_RELEASE}
  esac
  exit
  aushp:SunOS:*:*)
echo sparc-auspex-sunos${UNAME_RELEASE}
exit ;;
# The situation for MiNT is a little confusing. The machine name
# can be virtually everything (everything which is not
# "atarist" or "atariste" at least should have a processor
# > m68000). The system name ranges from "MiNT" over "FreeMiNT"
# to the lowercase version "mint" (or "freemint"). Finally
# the system name "TOS" denotes a system which is actually not
# MiNT. But MiNT is downward compatible to TOS, so this should
# be no problem.
atarist[e]:*MiNT:*:* | atarist[e]:*mint:*:* | atarist[e]:*TOS:*:*)
echo m68k-atari-mint${UNAMERELEASE}
exit ;;
atari*:*MiNT:*:* | atari*:*mint:*:* | atari[e]:*TOS:*:*)
echo m68k-atari-mint${UNAMERELEASE}
exit ;;
falcon*:*MiNT:*:* | falcon*:*mint:*:* | falcon*:*TOS:*:*)
echo m68k-atari-mint${UNAMERELEASE}
exit ;;
milan*:*MiNT:*:* | milan*:*mint:*:* | milan*:*TOS:*:*)
echo m68k-milan-mint$UNAME_RELEASE
exit ::
hades*:MiNT:*:* | hades*:mint:*:* | *hades*:TOS:*:*)
echo m68k-hades-mint$UNAME_RELEASE
exit ::
*:MiNT:*:* | *:mint:*:* | *:TOS:*:*)
echo m68k-unknown-mint$UNAME_RELEASE
exit ::
m68k:machten:*:*)
echo m68k-apple-machten$UNAME_RELEASE
exit ::
powerpc:machten:*:*)
echo powerpc-apple-machten$UNAME_RELEASE
exit ::
RISC*:Mach:*:*)
echo mips-dec-mach_bsd4.3
exit ::
RISC*:ULTRIX:*:*)
echo mips-dec-ultrix$UNAME_RELEASE
exit ::
VAX*:ULTRIX*:*)
echo vax-dec-ultrix$UNAME_RELEASE
exit ::
2020:CLIX:*:* | 2430:CLIX:*:*)
echo clipper-intergraph-clix$UNAME_RELEASE
exit ::
mips:*:UMIPS | mips:*:RISCos)
eval $set_cc_for_build
sed 's/^	//' << EOF >$dummy.c
#ifdef __cplusplus
#include <stdio.h>  /* for printf() prototype */
int main (int argc, char *argv[]) {
#else
int main (argc, argv) int argc; char *argv[]; {
#endif
#if defined (host_mips) && defined (MIPSEB)
#if defined (SYSTYPE_SYSV)
printf ("mips-mips-riscos%ssysv\n", argv[1]); exit (0);
#endif
#if defined (SYSTYPE_SVR4)
printf ("mips-mips-riscos%ssvr4\n", argv[1]); exit (0);
#endif
#if defined (SYSTYPE_BSD43) || defined(SYSTYPE_BSD)
printf ("mips-mips-riscos%sbsd\n", argv[1]); exit (0);
#endif
exit (-1);
}
EOF

SCC_FOR_BUILD -o $dummy $dummy.c &&
    dummyarg='echo "${UNAME_RELEASE}" | sed -n s/(^[0-9]*).*/\1/p' &&
    SYSTEM_NAME='"$dummy $dummyarg"' &&
    { echo "$SYSTEM_NAME"; exit; }
    echo mips-mips-riscos${UNAME_RELEASE}
    exit ;;
    Motorola:PowerMAX_OS:*:*)
    echo powerpc-motorola-powermax
    exit ;;
    Motorola:*:4.3:*:PL8-*)
    echo powerpc-harris-powermax
    exit ;;
    Night_Hawk:*:*:*:PowerMAX_OS | Synergy:PowerMAX_OS:*:*)
    echo powerpc-harris-powermax
    exit ;;
    Night_Hawk:Power_UNIX:*:*)
    echo powerpc-harris-powerunix
    exit ;;
    m88k:CX/UX:7:*:*)
    echo m88k-harris-cxux7
    exit ;;
    m88k:*:4*:R4*)
    echo m88k-motorola-sysv4
    exit ;;
    m88k:*:3*:R3*)
    echo m88k-motorola-sysv3
    exit ;;
    AViiON:dgux:*:*)
    # DG/UX returns AViiON for all architectures
    UNAME_PROCESSOR="/usr/bin/uname -p"
    if [ $UNAME_PROCESSOR = mc88100 ] || [ $UNAME_PROCESSOR = mc88110 ]
    then
        if [ $(TARGET_BINARY_INTERFACE) = m88kdguxelfx ] || [ $(TARGET_BINARY_INTERFACE) = m88kdguxbcsex ]
        then
            echo m88k-dg-dguxs{UNAME_RELEASE}
        else
            echo m88k-dg-dguxbs{UNAME_RELEASE}
        fi
    else
        echo i586-dg-dgux{UNAME_RELEASE}
    fi
    exit ;;
    M88*:DolphinOS:*:*)# DolphinOS (SVR3)
    echo m88k-dolphin-sysv3
    exit ;;
    M88*::*:R3:*:*)
# Delta 88k system running SVR3
echo m88k-motorola-sysv3
exit ;;

XD88*:.*:*:*:* # Tektronix XD88 system running UTekV (SVR3)
echo m88k-tektronix-sysv3
exit ;;

Tek43[0-9][0-9]:UTek:*:*:* # Tektronix 4300 system running UTek (BSD)
echo m68k-tektronix-bsd
exit ::

*:IRIX*:.*:* # IRIX
echo mips-sgi-irix`echo ${UNAME_RELEASE}|sed -e 's/-/_/g'`
exit ::

????????:AIX?:[12].1:2) # AIX 2.2.1 or AIX 2.1.1 is RT/PC AIX.
echo romp-ibm-aix # uname -m gives an 8 hex-code CPU id
exit :: # Note that: echo "uname -s" gives 'AIX'
i*86:AIX:*:*:*
echo i386-ibm-aix
exit ::

ia64:AIX:*:*:*
if [-x /usr/bin/oslevel ] ; then
IBM_REV=/usr/bin/oslevel
else
IBM_REV=${UNAME_VERSION}.${UNAME_RELEASE}
fi
echo ${UNAME_MACHINE}-ibm-aix${IBM_REV}
exit ::

*:AIX:2:3)
if grep bos325 /usr/include/stdio.h >/dev/null 2>&1; then
eval $set_cc_for_build
sed 's/^		//' << EOF >$dummy.c
#include <sys/systemcfg.h>
main()
{
if (!__power_pc())
exit(1);
puts("powerpc-ibm-aix3.2.5");
extit(0);
}
EOF
if $CC_FOR_BUILD -o $dummy $dummy.c && SYSTEM_NAME=\$dummy
then
echo "$SYSTEM_NAME"
else
echo rs6000-ibm-aix3.2.5
fi
echo rs6000-ibm-aix3.2.4
else
echo rs6000-ibm-aix
fi
exit ;;
*:AIX:*:[4567]
IBM_CPU_ID=/usr/sbin/lsdev -C -c processor -S available | sed 1q | awk '{ print $1 }'
if /usr/sbin/lsattr -El $[IBM_CPU_ID] | grep 'POWER' >/dev/null 2>&1; then
IBM_ARCH=rs6000
else
IBM_ARCH=powerpc
fi
if [-x /usr/bin/lspp ]; then
IBM_REV=/usr/bin/lspp -Lqc bos.rte.libc |
   awk -F: '{ print $3 }' | sed s/[0-9]*/0/'
else
IBM_REV=${UNAME_VERSION}.${UNAME_RELEASE}
fi
echo ${IBM_ARCH}-ibm-aix${IBM_REV}
exit ;;
*:AIX:*:*)
echo rs6000-ibm-aix
exit ;;
ibmrt:4.4BSD:*[romp-ibm:BSD:*)
echo romp-ibm-bsd4.4
exit ;;
ibmrt:*BSD:*[romp-ibm:BSD:*)   # covers RT/PC BSD and
echo romp-ibm-bsd${UNAME_RELEASE}   # 4.3 with uname added to
exit ;;                       # report: romp-ibm BSD 4.3
*:BOSX:*:*)
echo rs6000-bull-bosx
exit ;;
DPX/2?00:B.O.S.:*:*)
echo m68k-bull-sysv3
exit ;;
9000/[34]??:4.3bsd:1.*:*)
echo m68k-hp-bsd
exit ;;
hp300:4.4BSD:*:* | 9000/[34]??:4.3bsd:2.*:*)
echo m68k-hp-bsd4.4
exit ;;
9000/[34678]??:HP-UX:*:*)
HPUX_REV=`echo ${UNAME_RELEASE}|sed -e 's/[^.]*.[^.]*\[[0BJ]*//'`
case "$[UNAME_MACHINE]" in
9000/31? )     HP_ARCH=m68000 ;;
9000/[34]? )    HP_ARCH=m68k ;;
9000/[678][0-9][0-9])
if [-x /usr/bin/getconf ]; then
   sc_cpu_version="/usr/bin/getconf SC_CPU_VERSION 2>/dev/null"
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sc_kernel_bits="/usr/bin/getconf SC_KERNEL_BITS 2>/dev/null"
case "${sc_cpu_version}" in
  523) HP_ARCH=hppa1.0 ;; # CPU_PA_RISC1_0
  528) HP_ARCH=hppa1.1 ;; # CPU_PA_RISC1_1
  532)                      # CPU_PA_RISC2_0
  esac
fi
if [ "${HP_ARCH}" = "" ]; then
eval $set_cc_for_build
sed 's/"//g' "< EOF >$dummy.c

#define _HPUX_SOURCE
#include <stdlib.h>
#include <unistd.h>

int main ()
{
  #if defined(_SC_KERNEL_BITS)
    long bits = sysconf(_SC_KERNEL_BITS);
  #endif
      long cpu  = sysconf (_SC_CPU_VERSION);

      switch (cpu)
      {
        case CPU_PA_RISC1_0: puts ("hppa1.0"); break;
        case CPU_PA_RISC1_1: puts ("hppa1.1"); break;
        case CPU_PA_RISC2_0:
          #if defined(_SC_KERNEL_BITS)
            switch (bits)
            {
              case 64: puts ("hppa2.0w"); break;
              case 32: puts ("hppa2.0n"); break;
              default: puts ("hppa2.0"); break;
            } break;
          #else /* !defined(_SC_KERNEL_BITS) */
            puts ("hppa2.0"); break;
          #endif
        default: puts ("hppa1.0"); break;
      }
      exit (0);
  }
EOF
  (CCOPTS="" SCC_FOR_BUILD -o $dummy $dummy.c 2>/dev/null) && HP_ARCH=`$dummy`
test -z "$HP_ARCH" & & HP_ARCH=hppa
fi :

esac
if [ ${HP_ARCH} = hppa2.0w ]
then
eval $set_cc_for_build

# hppa2.0w-hp-hpux* has a 64-bit kernel and a compiler generating
# 32-bit code.  hppa64-hp-hpux* has the same kernel and a compiler
# generating 64-bit code.  GNU and HP use different nomenclature:
#
# $ CC_FOR_BUILD=cc ./config.guess
# => hppa2.0w-hp-hpux11.23
# $ CC_FOR_BUILD="cc +DA2.0w" ./config.guess
# => hppa64-hp-hpux11.23

if echo __LP64__ | (CCOPTS="" $CC_FOR_BUILD -E - 2>/dev/null) |
grep -q __LP64__
then
HP_ARCH=hppa2.0w
else
HP_ARCH=hppa64
fi
fi
echo ${HP_ARCH}-hp-hpux${HPUX_REV}
exit ;;
ia64:HP-UX:*:*)
HPUX_REV=`echo ${UNAME_RELEASE}|sed -e 's/[^.]*.\[^0B\]*//'
echo ia64-hp-hpux$[HPUX_REV]
exit ::
3050*:HI-UX:*:*)
eval $set_cc_for_build
sed ”s/\*/ << EOF >$dummy.c
#include <unistd.h>
int
main ()
{
  long cpu = sysconf (_SC_CPU_VERSION);
/* The order matters, because CPU_IS_HP_MC68K erroneously returns
  true for CPU_PA_RISC1_0.  CPU_IS_PA_RISC returns correct
  results, however.  */
if (CPU_IS_PA_RISC (cpu))
{   
  switch (cpu)
  {
  case CPU_PA_RISC1_0: puts ("hppa1.0-hitachi-hiuxwe2"); break;
  case CPU_PA_RISC1_1: puts ("hppa1.1-hitachi-hiuxwe2"); break;
  case CPU_PA_RISC2_0: puts ("hppa2.0-hitachi-hiuxwe2"); break;
default: puts ("hppa-hitachi-hiuxwe2"); break;
}

else if (CPU_IS_HP_MC68K (cpu))
    puts ("m68k-hitachi-hiuxwe2");
else puts ("unknown-hitachi-hiuxwe2");
exit (0);
}
EOF

$CC_FOR_BUILD -o $dummy $dummy.c && SYSTEM_NAME=`$dummy` &&
{ echo "$SYSTEM_NAME"; exit; }
echo unknown-hitachi-hiuxwe2
exit ;;
  9000/7???:4.3bsd:*:* | 9000/8?[79]:4.3bsd:*:* )
echo hppa1.1-hp-bsd
exit ;;
  9000/8???:4.3bsd:*:*)
echo hppa1.0-hp-bsd
exit ;;
  *9???:MPE/iX:*:* | *3000*:MPE/iX:*:*)
echo hppa1.0-hp-mpeix
exit ;;
  hp7???:OSF1:*:* | hp8?[79]:OSF1:*:* )
echo hppa1.1-hp-osf
exit ;;
  hp8???:OSF1:*:*)
echo hppa1.0-hp-osf
exit ;;
  i*86:OSF1:*:*)
if [-x /usr/sbin/sysversion ] ; then
  echo ${UNAME_MACHINE}-unknown-osf1mk
else
  echo ${UNAME_MACHINE}-unknown-osf1
fi
exit ;;
parisc*:Lites*:*:*
echo hppa1.1-hp-lites
exit ;;
C1*:ConvexOS*:*: | convex:ConvexOS:C1*:*)
echo c1-convex-bsd
exit ;;
C2*:ConvexOS*:*: | convex:ConvexOS:C2*:*)
if getsysinfo -f scalar_acc
then echo c32-convex-bsd
else echo c2-convex-bsd
fi
exit ;;
C34*:ConvexOS*:*: | convex:ConvexOS:C34*:*)
echo c34-convex-bsd
exit ::
  C38*:ConvexOS:*:* | convex:ConvexOS:C38*:*)
echo c38-convex-bsd
exit ::
  C4*:ConvexOS:*:* | convex:ConvexOS:C4*:*)
echo c4-convex-bsd
exit ::
  CRAY*Y-MP:*:*:*)
  echo ymp-cray-unicos$[UNAME_RELEASE] | sed -e 's/\([^.]\).*$/\1/'
  exit ::
  CRAY*[A-Z]90:*:*:*)
  echo $[UNAME_MACHINE]-cray-unicos$[UNAME_RELEASE] | sed -e 's/\([^.]\).*$/\1/'
  exit ::
  CRAY*TS:*:*:*)
  echo t90-cray-unicos$[UNAME_RELEASE] | sed -e 's/\([^.]\).*$/\1/
  exit ::
  CRAY*T3E:*:*:*)
  echo alphaev5-cray-unicosmk$[UNAME_RELEASE] | sed -e 's/\([^.]\).*$/\1/'
  exit ::
  CRAY*SV1:*:*:*)
  echo sv1-cray-unicos$[UNAME_RELEASE] | sed -e 's/\([^.]\).*$/\1/
  exit ::
  #:UNICOS/mp:*:*:*)
  echo craynv-cray-unicosmp$[UNAME_RELEASE] | sed -e 's/\([^.]\).*$/\1/
  exit ::
  F30[01]:UNIX_System_V:*:*:* | F700:UNIX_System_V:*:*:*)
  FUJITSU_PROC=uname -m | tr ABCDEFGHIJKLMNOPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz
  FUJITSU_SYS=uname -p | tr ABCDEFGHIJKLMNOPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz
  FUJITSU_REL=`echo ${UNAME_RELEASE} | sed -e 's/ /_/g'
  exit ::
  5000:UNIX_System_V:4:*:*:*)
  FUJITSU_SYS=uname -p | tr ABCDEFGHIJKLMNOPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz
  FUJITSU_REL=`echo $[UNAME_RELEASE] | sed -e 's/\([^.]\).*$/\1/'
  exit ::
  i86:BSD/386:*:* | i86:BSD/OS:*:* | *:Ascend\ Embedded/OS:*:*:*)
  echo $[UNAME_MACHINE]-pc-bsdi$[UNAME_RELEASE]
  exit ::
  sparc*:BSD/OS:*:*:*)
  echo sparc-unknown-bsdi$[UNAME_RELEASE]
exit ;;
*:BSD/OS:*:*)
echo ${UNAME_MACHINE}-unknown-bsdi${UNAME_RELEASE}
exit ;;
*:FreeBSD:*:*)
UNAME_PROCESSOR="/usr/bin/uname -p"
case ${UNAME_PROCESSOR} in
  amd64)
echo x86_64-unknown-freebsd`echo ${UNAME_RELEASE}|sed -e 's/[.]*//g' ;;
  *)
echo ${UNAME_PROCESSOR}-unknown-freebsd`echo ${UNAME_RELEASE}|sed -e 's/[.]*//g' ;;
esac
exit ;;
  i*:CYGWIN*:*)
echo ${UNAME_MACHINE}-pc-cygwin
exit ;;
  *:MINGW64*:*)
echo ${UNAME_MACHINE}-pc-mingw64
exit ;;
  *:MINGW*:*)
echo ${UNAME_MACHINE}-pc-mingw32
exit ;;
  *:MSYS*:*)
echo ${UNAME_MACHINE}-pc-msys
exit ;;
  i*:windows32*:*)
# uname -m includes ”-pc” on this system.
echo ${UNAME_MACHINE}-mingw32
exit ;;
  i*:PW*:*)
echo ${UNAME_MACHINE}-pc-pw32
exit ;;
  *:Interix*:*)
case ${UNAME_MACHINE} in
  x86)
echo ia32-pc-interix${UNAME_RELEASE}
exit ;;
authenticamd | genuineintel | EM64T)
echo x86_64-unknown-interix${UNAME_RELEASE}
exit ;;
  IA64)
echo ia64-unknown-interix${UNAME_RELEASE}
exit ;;
esac ;;
echo i686${UNAME_MACHINE}-pc-mks
exit ;;
8664:Windows_NT:*)
echo x86_64-pc-mks
exit ::
    i*:Windows_NT*: | Pentium*:Windows_NT*:*)
# How do we know it's Interix rather than the generic POSIX subsystem?
# It also conflicts with pre-2.0 versions of AT&T UWIN. Should we
# UNAME_MACHINE based on the output of uname instead of i386?
echo i586-pc-interix
exit ::
    i*:UWIN*:*)
echo $[UNAME_MACHINE]-pc-uwin
exit ::
    amd64:CYGWIN*:.* | x86_64:CYGWIN*:.*)
echo x86_64-unknown-cygwin
exit ::
    p*:CYGWIN*:*)
echo powerpcle-unknown-cygwin
exit ::
    prep*:SunOS:5.:.*)
echo powerpcle-unknown-solaris2`echo ${UNAME_MACHINE}-pc-uwin
exit ::
    *:GNU:*:*)
# the GNU system
echo `echo ${UNAME_MACHINE}|sed -e 's/\^[^\-]*\]/\]/'`-unknown-$[LIBC]`echo ${UNAME_RELEASE}|sed -e 's/\^[^\-]*\]/\]/`-unknown-$[LIBC]
echo ${UNAME_MACHINE}-unknown-`echo ${UNAME_SYSTEM} | sed 's,^[^/]*,\]/' | tr "[[:upper:]]" "[[:lower:]]"`-unknown-$[LIBC]
echo ${UNAME_MACHINE}-pc-minix
exit ::
    aarch64:Linux*:*)
echo ${UNAME_MACHINE}-unknown-linux-$[LIBC]
echo ${UNAME_MACHINE}=aarch64_be
echo ${UNAME_MACHINE}=alpha:Linux*:*)
case `sed -n '/^cpu model/s/\^[^\-]*\]/\]/p' < /proc/cpuinfo` in
    EV5) UNAME_MACHINE=alphaev5
    EV56) UNAME_MACHINE=alphaev56
    PCA56) UNAME_MACHINE=alphapca56
    PCA57) UNAME_MACHINE=alphapca56
    EV6) UNAME_MACHINE=alphaev6
    EV67) UNAME_MACHINE=alphaev67

EV68*) UNAME_MACHINE=alphaev68 ;;
esac
objdump --private-headers /bin/sh | grep -q ld.so.1
if test "$?" = 0 ; then LIBC=gnulibc1 ; fi
echo ${UNAME_MACHINE}-unknown-linux-$LIBC exit ;;
        arc:Linux::*:* | arceb:Linux::*:*)
        echo ${UNAME_MACHINE}-unknown-linux-$LIBC exit ;;
        arm*:Linux::*:*)
eval $set_cc_for_build
if echo __ARM_EABI__ | $CC_FOR_BUILD -E - 2>/dev/null \ | grep -q __ARM_EABI__
then
        echo ${UNAME_MACHINE}-unknown-linux-$LIBC
else
        if echo __ARM_PCS_VFP | $CC_FOR_BUILD -E - 2>/dev/null \ | grep -q __ARM_PCS_VFP
then
        echo ${UNAME_MACHINE}-unknown-linux-$LIBC eabi
else
        echo ${UNAME_MACHINE}-unknown-linux-$LIBC eabihf
fi
fi
exit ;;
        avr32*:Linux::*:*)
        echo ${UNAME_MACHINE}-unknown-linux-$LIBC
exit ;;
        cris:Linux::*:*)
        echo ${UNAME_MACHINE}-axis-linux-$LIBC
exit ;;
        crisv32:Linux::*:*)
        echo ${UNAME_MACHINE}-axis-linux-$LIBC
exit ;;
        e2k:Linux::*:*)
        echo ${UNAME_MACHINE}-unknown-linux-$LIBC
exit ;;
        frv:Linux::*:*)
        echo ${UNAME_MACHINE}-unknown-linux-$LIBC
exit ;;
        hexagon:Linux::*:*)
        echo ${UNAME_MACHINE}-unknown-linux-$LIBC
exit ;;
        i*86:Linux::*:*)
        echo ${UNAME_MACHINE}-pc-linux-$LIBC
exit ;;
        ia64:Linux::*:*)
        echo ${UNAME_MACHINE}-unknown-linux-$LIBC
exit ;;
exit ;
  k1om:Linux:*:*)
echo ${UNAME_MACHINE}-unknown-linux-${LIBC}
exite ;
  m32r*:Linux:*:*)
echo ${UNAME_MACHINE}-unknown-linux-${LIBC}
exite ;
  m68*:Linux:*:*)
echo ${UNAME_MACHINE}-unknown-linux-${LIBC}
exite ;
  mips:Linux:*:* | mips64:Linux:*:*)
eval $set_cc_for_build
sed 's/^\t//' << EOF >$dummy.c
#undef CPU
#undef ${UNAME_MACHINE}
#undef ${UNAME_MACHINE}el
#if defined(__MIPSEL__) || defined(__MIPSEL) || defined(_MIPSEL) || defined(MIPSEL)
CPU=${UNAME_MACHINE}el
#else
#if defined(__MIPSEB__) || defined(__MIPSEB) || defined(_MIPSEB) || defined(MIPSEB)
CPU=${UNAME_MACHINE}
#else
CPU=
#endif
#endif
EOF
eval `$CC_FOR_BUILD -E $dummy.c 2>/dev/null | grep '^CPU'
test x"${CPU}" != x && { echo "${CPU}-unknown-linux-${LIBC}"; exit; }
};
openrisc*:Linux:*:*)
echo or1k-unknown-linux-${LIBC}
exite ;
or32:Linux:*:* | or1k*:Linux:*:*)
echo ${UNAME_MACHINE}-unknown-linux-${LIBC}
exite ;
padre:Linux:*:*)
echo sparc-unknown-linux-${LIBC}
exite ;
parisc64:Linux:*:* | hppa64:Linux:*:*)
echo hppa64-unknown-linux-${LIBC}
exite ;
parisc:Linux:*:* | hppa:Linux:*:*)
# Look for CPU level
case `grep "^cpu[^a-z]*:" /proc/cpuinfo 2>/dev/null | cut -d' ' -f2` in
  PA7*) echo hppa1.1-unknown-linux-${LIBC} ;;
P A8*) echo hppa2.0-unknown-linux-${LIBC} ;;
*) echo hppa-unknown-linux-${LIBC} ;;
esac
exit ;
    ppc64:Linux:*:*)
    echo powerpc64-unknown-linux-${LIBC}
    exit ;
    ppc:Linux:*:*)
    echo powerpc-unknown-linux-${LIBC}
    exit ;
    ppc64le:Linux:*:*)
    echo powerpc64le-unknown-linux-${LIBC}
    exit ;
    ppcle:Linux:*:*)
    echo powerpcle-unknown-linux-${LIBC}
    exit ;;
    s390:Linux:*:* | s390x:Linux:*:*)
    echo ${UNAME_MACHINE}-ibm-linux-${LIBC}
    exit ;
    sh64*:Linux:*:*)
    echo ${UNAME_MACHINE}-unknown-linux-${LIBC}
    exit ;
    sh*:Linux:*:*)
    echo ${UNAME_MACHINE}-unknown-linux-${LIBC}
    exit ;
    sparc:Linux:*:* | sparc64:Linux:*:*)
    echo ${UNAME_MACHINE}-unknown-linux-${LIBC}
    exit ;
    tile*:Linux:*:*)
    echo ${UNAME_MACHINE}-unknown-linux-${LIBC}
    exit ;
    vax:Linux:*:*)
    echo ${UNAME_MACHINE}-dec-linux-${LIBC}
    exit ;
    x86_64:Linux:*:*)
    echo ${UNAME_MACHINE}-pc-linux-${LIBC}
    exit ;
    xtensa*:Linux:*:*)
    echo ${UNAME_MACHINE}-unknown-linux-${LIBC}
    exit ;
    i*86:DYNIX/ptx:4*:*)
    # ptx 4.0 does uname -s correctly, with DYNIX/ptx in there.
    # earlier versions are messed up and put the nodename in both
    # sysname and nodename.
    echo i386-sequent-sysv4
    exit ;
    i*86:UNIX_SV:4.2MP:2.*)
    # Unixware is an offshoot of SVR4, but it has its own version
    # number series starting with 2...
    # I am not positive that other SVR4 systems won't match this,
    # I just have to hope. -- rms.
# Use sysv4.2uw... so that sysv4* matches it.
echo ${UNAME_MACHINE}-pc-sysv4.2uw$[UNAME_VERSION] exit ;;
i*86:OS/2:*:*)
# If we were able to find `uname', then EMX Unix compatibility
# is probably installed.
echo ${UNAME_MACHINE}-pc-os2-emx exit ;;
i*86:XTS-300:*:STOP)
echo ${UNAME_MACHINE}-unknown-stop exit ;;
i*86:atheos;:*:*)
echo ${UNAME_MACHINE}-unknown-atheos exit ;;
i*86:syllable;:*:*)
echo ${UNAME_MACHINE}-pc-syllable exit ;;
i*86:LynxOS:2.*:* | i*86:LynxOS:3.01:*: | i*86:LynxOS:4.*:*)
echo i386-unknown-lynxos${[UNAME_RELEASE]}
exit ;;
i*86:*DOS;:*:*)
echo ${UNAME_MACHINE}-pc-msdosdjgpp exit ;;
i*86:*:4.*:* | i*86:SYSTEM_V:4.*:*)
UNAME_REL=`echo ${UNAME_RELEASE} | sed 's/\//G/'` if grep Novell /usr/include/link.h >/dev/null 2>/dev/null; then echo ${UNAME_MACHINE}-univel-sysv${UNAME_REL}
else
    echo ${UNAME_MACHINE}-pc-sysv${UNAME_REL}
fi exit ;;
i*86:*:5:[678]*)
# UnixWare 7.x, OpenUNIX and OpenServer 6.
case `/bin/uname -X | grep "^Machine"` in
   *486*)
    UNAME_MACHINE=i486 ;;
   *Pentium) UNAME_MACHINE=i586 ;;
   *Pent*|*Celeron) UNAME_MACHINE=i686 ;;
esac
echo ${UNAME_MACHINE}-unknown-
sysv${[UNAME_RELEASE]}$[UNAME_SYSTEM]$[UNAME_VERSION] exit ;;
i*86:*:3.2:*)
if test -f /usr/options/chb.name; then
    UNAME_REL=`sed -n 's/.*Version //p' /usr/options/chb.name` echo ${UNAME_MACHINE}-pc-isc$UNAME_REL.
echo /bin/uname -X 2>/dev/null >/dev/null ; then
    UNAME_REL=`(/bin/uname -X)grep Release|sed -e 's/\:*=' //')
    /bin/uname -X)grep i80486 >/(dev/null) && UNAME_MACHINE=i486
(/bin/uname -X|grep ^Machine.*Pentium >/dev/null) \
&& UNAME_MACHINE=i586
(/bin/uname -X|grep ^Machine.*Pent *II >/dev/null) \
&& UNAME_MACHINE=i686
(/bin/uname -X|grep ^Machine.*Pentium Pro >/dev/null) \
&& UNAME_MACHINE=i686
echo ${UNAME_MACHINE}-pc-sco$UNAME_REL
else
echo ${UNAME_MACHINE}-pc-sysv32
fi
exit ;;
pc:*:*:*)
# Left here for compatibility:
# uname -m prints for DJGPP always 'pc', but it prints nothing about
# the processor, so we play safe by assuming i586.
# Note: whatever this is, it MUST be the same as what config.sub
# prints for the "djgpp" host, or else GDB configure will decide that
# this is a cross-build.
echo i586-pc-msdosdjgpp
exit ;;
    Intel:Mach:3*:*)
echo i386-pc-mach3
exit ;;
    paragon:*:*:*)
echo i860-intel-osf1
exit ;;
    i860:*:4.*:*) # i860-SVR4
if grep Stardent /usr/include/sys/uadmin.h >/dev/null 2>&1 ; then
echo i860-stardent-sysv${UNAME_RELEASE} # Stardent Vistra i860-SVR4
else # Add other i860-SVR4 vendors below as they are discovered.
echo i860-unknown-sysv${UNAME_RELEASE}  # Unknown i860-SVR4
fi
exit ;;
mini*:CTIX:SYS*5:*)
# "miniframe"
echo m68010-convergent-sysv
exit ;;
    mc68k:UNIX:SYSTEM5:3.51m)
echo m68k-convergent-sysv
exit ;;
    M680?0:D-NIX:5.3:*)
echo m68k-diab-dnix
exit ;;
    M68*:*.R3V[5678]*:*)
test -r /sysV68 && { echo 'm68k-motorola-sysv'; exit; } ;;
    3[345]??:*:4.0:3.0 | 3[34]??:*:4.0:3.0 | 3[34][?]:*:4.0:3.0 | 3[34][?]:*:4.0:3.0 | 4400:*:4.0:3.0 | 4850:*:4.0:3.0 | SKA40:*:4.0:3.0 | SDS2:*:4.0:3.0 | SHG2:*:4.0:3.0 | S7501*:*:4.0:3.0)
OS_REL="
test -r /etc/.relid
&& OS_REL=.`sed -n 's/\([^ ]\)[^ ]\(\([0-9][0-9]\)\)/\1/p' < /etc/.relid`
/bin/uname -p 2>/dev/null grep 86 >/dev/null
&& { echo i486-ncr-sysv4.3$[OS_REL]; exit; }
/bin/uname -p 2>/dev/null /bin/grep entium >/dev/null
&& { echo i586-ncr-sysv4.3$[OS_REL]; exit; };;
3[34]???:*:4.0:* | 3[34]???:*:4.0:*)
/bin/uname -p 2>/dev/null grep 86 >/dev/null
&& { echo i486-ncr-sysv4; exit; };;
NCR*:*:4.2:* | MPRAS*:*:4.2:*)
OS_REL=:.3

test -r /etc/.relid
&& OS_REL=.`sed -n 's/\([^ ]\)[^ ]\(\([0-9][0-9]\)\)/\1/p' < /etc/.relid`
/bin/uname -p 2>/dev/null grep 86 >/dev/null
&& { echo i486-ncr-sysv4.3$[OS_REL]; exit; }
/bin/uname -p 2>/dev/null /bin/grep entium >/dev/null
&& { echo i586-ncr-sysv4.3$[OS_REL]; exit; };;
/bin/uname -p 2>/dev/null /bin/grep pteron >/dev/null
&& { echo i586-ncr-sysv4.3$[OS_REL]; exit; };;
m68*:LynxOS:2.*:* | m68*:LynxOS:3.0:*)
echo m68k-unknown-lynxos$[UNAME_RELEASE]
exit ;;
m68030:UNIX_System_V:4.*:*)
echo m68k-unknown-lynxos
exit ;;
TSUNAMI:LynxOS:2.*:*)
echo sparc-unknown-lynxos$[UNAME_RELEASE]
exit ;;
rs6000:LynxOS:2.*:*)
echo rs6000-unknown-lynxos$[UNAME_RELEASE]
exit ;;
PowerPC:LynxOS:2.*: | PowerPC:LynxOS:3.[01]*:* | PowerPC:LynxOS:4.[02]*:*)
echo powerpc-unknown-lynxos$[UNAME_RELEASE]
exit ;;
SM[BE]S:UNIX_SV:*:*)
echo mips-dde-sysv$[UNAME_RELEASE]
exit ;;
RM*:ReliantUNIX:*:*:*)
echo mips-sni-sysv4
exit ;;
RM*:SINIX:*:*:*)
echo mips-sni-sysv4
exit ;;
*:SINIX:*:*:*)
if uname -p 2>/dev/null >/dev/null ; then
UNAME_MACHINE=`(uname -p) 2>/dev/null`
echo $[UNAME_MACHINE]-sni-sysv4
else
echo ns32k-sni-sysv
fi
exit ;;
PENTIUM:*:4.0:*:*) # Unisys `ClearPath HMP IX 4000' SVR4/MP effort
# says <Richard.M.Bartel@ccMail.Census.GOV>
echo i586-unisys-sysv4
exit ;;
*:UNIX_System_V:4*:FTX*)
# From Gerald Hewes <hewes@openmarket.com>.
# How about differentiating between stratus architectures? -djm
echo hppa1.1-stratus-sysv4
exit ;;
*:*:*:FTX*)
# From seanf@swdc.stratus.com.
echo i860-stratus-sysv4
exit ;;
i*86:VOS:*:*)
# From Paul.Green@stratus.com.
echo ${UNAME_MACHINE}-stratus-vos
exit ;;
*:VOS:*:*)
# From Paul.Green@stratus.com.
echo hppa1.1-stratus-vos
exit ;;
mc68*:A/UX:*:*)
echo m68k-apple-aux${UNAME_RELEASE}
exit ;;
news*:NEWS-OS:6:*:*)
echo mips-sony-newsos6
exit ;;
R[34]000:*System_V:*:* | R4000:UNIX_SYSV:*:* | R*000:UNIX_SV:*:*)
if [ -d /usr/nec ]; then
echo mips-nec-sysv${UNAME_RELEASE}
else
echo mips-unknown-sysv${UNAME_RELEASE}
fi
exit ;;
BeBox:BeOS:*:*)# BeOS running on hardware made by Be, PPC only.
echo powerpc-be-beos
exit ;;
BeMac:BeOS:*:*)# BeOS running on Mac or Mac clone, PPC only.
echo powerpc-apple-beos
exit ;;
BePC:BeOS:*:*)# BeOS running on Intel PC compatible.
echo i586-pc-beos
exit ;;
BePC:Haiku:*:*)# Haiku running on Intel PC compatible.
echo i586-pc-haiku
exit ;;
    x86_64:Haiku:*:*)
    echo x86_64-unknown-haiku
    exit ;;
    SX-4:SUPER-UX:*:*)
    echo sx4-nec-superux${UNAME_RELEASE}
    exit ;;
    SX-5:SUPER-UX:*:*)
    echo sx5-nec-superux${UNAME_RELEASE}
    exit ;;
    SX-6:SUPER-UX:*:*)
    echo sx6-nec-superux${UNAME_RELEASE}
    exit ;;
    SX-7:SUPER-UX:*:*)
    echo sx7-nec-superux${UNAME_RELEASE}
    exit ;;
    SX-8:SUPER-UX:*:*)
    echo sx8-nec-superux${UNAME_RELEASE}
    exit ;;
    SX-8R:SUPER-UX:*:*)
    echo sx8r-nec-superux${UNAME_RELEASE}
    exit ;;
    SX-ACE:SUPER-UX:*:*)
    echo sxace-nec-superux${UNAME_RELEASE}
    exit ;;
    Power*:Rhapsody:*:*)
    echo powerpc-apple-rhapsody${UNAME_RELEASE}
    exit ;;
    *:Rhapsody:*:*)
    echo ${UNAME_MACHINE}-apple-rhapsody${UNAME_RELEASE}
    exit ;;
    *:Darwin:*:*)
    UNAME_PROCESSOR=`uname -p` || UNAME_PROCESSOR=unknown
    eval $set_cc_for_build
    if test "$UNAME_PROCESSOR" = unknown ; then
        UNAME_PROCESSOR=powerpc
    fi
    if test "$UNAME_PROCESSOR" = unknown ; then
        UNAME_PROCESSOR=powerpc
    fi
    if test "$UNAME_PROCESSOR" = unknown ; then
        if [ "$SCC_FOR_BUILD" != no_compiler_found ]; then
            if echo '#ifdef __LP64__'; echo IS_64BIT_ARCH; echo '#endif') | \ 
                (CCOPTS="" SCC_FOR_BUILD -E - 2>/dev/null) \ 
                grep IS_64BIT_ARCH >/dev/null
            then
                case $UNAME_PROCESSOR in
                    i386) UNAME_PROCESSOR=x86_64 ;;
                    powerpc) UNAME_PROCESSOR=powerpc64 ;;
                esac
            fi
        fi
    fi
elif test "$UNAME_PROCESSOR" = i386 ; then
    # Avoid executing cc on OS X 10.9, as it ships with a stub
    # that puts up a graphical alert prompting to install
    # developer tools. Any system running Mac OS X 10.7 or
    # later (Darwin 11 and later) is required to have a 64-bit
    # processor. This is not true of the ARM version of Darwin
    # that Apple uses in portable devices.
    UNAME_PROCESSOR=x86_64
fi

echo ${UNAME_PROCESSOR}-apple-darwin${UNAME_RELEASE}
exit ;;
*:procnto*:.* | *:QNX:[0123456789]*:*
UNAME_PROCESSOR=uname -p
if test "$UNAME_PROCESSOR" = x86; then
    UNAME_PROCESSOR=i386
    UNAME_MACHINE=pc
fi

echo ${UNAME_PROCESSOR}-${UNAME_MACHINE}-nto-qnx${UNAME_RELEASE}
exit ;;
*:QNX:*:4*
echo i386-pc-qnx
exit ;;
    NEO-?:NONSTOP_KERNEL:*:*
echo neo-tandem-nsk${UNAME_RELEASE}
exit ;;
    NSE-?:NONSTOP_KERNEL:*:*
echo nse-tandem-nsk${UNAME_RELEASE}
exit ;;
    NSR-?:NONSTOP_KERNEL:*:*
echo nsr-tandem-nsk${UNAME_RELEASE}
exit ;;
    *:NonStop-UX:*:*
echo mips-compaq-nonstopux
exit ;;
    BS2000:POSIX*:.*
echo bs2000-siemens-sysv
exit ;;
    DS/*:UNIX_System_V:*:*
echo ${UNAME_MACHINE}-${UNAME_SYSTEM}-${UNAME_RELEASE}
exit ;;
*:Plan9*:.*
# "uname -m" is not consistent, so use $cputype instead. 386
# is converted to i386 for consistency with other x86
# operating systems.
if test "$cputype" = 386; then
    UNAME_MACHINE=i386
else
UNAME_MACHINE="Scputype"
fi
echo ${UNAME_MACHINE}-unknown-plan9
exit ::
*:TOPS-10;*:*)
exclude pdp10-unknown-tops10
exit ::
*:TENEX;*:*)
exclude pdp10-unknown-tenex
exit ::
KS10:TOPS-20;*:*) | KL10:TOPS-20;*:*) | TYPE4:TOPS-20;*:*)
exclude pdp10-dec-tops20
exit ::
*:TOPS-20;*:*)
exclude pdp10-unknown-tops20
exit ::
*:ITS;*:*)
exclude pdp10-unknown-its
exit ::
SEI;*:*) | SEIUX)
exclude mips-sei-seiux${UNAME_RELEASE}
exclude ::
*:DragonFly;*:*)
exclude ${UNAME_MACHINE}-unknown-dragonfly`echo ${UNAME_RELEASE}|sed -e '/.*/s/.*$//'
exclude ::
*:VMS;*:*)
UNAME_MACHINE=(uname -p) 2>/dev/null' case "$UNAME_MACHINE" in
A*) echo alpha-dec-vms ; exit ::
I*) echo ia64-dec-vms ; exit ::
V*) echo vax-dec-vms ; exit ::
esac ::
*:XENIX;*:*)
exclude i386-pc-xenix
exit ::
i86:skyos;*:*)
exclude $[UNAME_MACHINE]-pc-skyos`echo $[UNAME_RELEASE] | sed -e 's/.*$//'
exclude ::
i86:rdos;*:*)
exclude $[UNAME_MACHINE]-pc-rdos
exit ::
i86:AROS;*:*)
exclude $[UNAME_MACHINE]-pc-aros
exit ::
x86_64:VMkernel;*:*)
echo ${UNAME_MACHINE}-unknown-esx
exit ::
    amd64:Isilon\ OneFS:*:*)
echo x86_64-unknown-onefs
exit ::
esac
cat >&2 <<EOF
$0: unable to guess system type

This script (version $timestamp), has failed to recognize the operating system you are using. If your script is old, overwrite config.guess and config.sub with the latest versions from:

http://git.savannah.gnu.org/gitweb/?p=config.git;a= blob_plain;f=config.guess
and
http://git.savannah.gnu.org/gitweb/?p=config.git;a=blob_plain;f=config.sub

If $0 has already been updated, send the following data and any information you think might be pertinent to config-patches@gnu.org to provide the necessary information to handle your system.

config.guess timestamp = $timestamp

uname -m = `\(uname -m\) 2>/dev/null || echo unknown`
uname -r = `\(uname -r\) 2>/dev/null || echo unknown`
uname -s = `\(uname -s\) 2>/dev/null || echo unknown`
uname -v = `\(uname -v\) 2>/dev/null || echo unknown`

/usr/bin/uname -p = `\(/usr/bin/uname -p\) 2>/dev/null`
/bin/uname -X = `\(/bin/uname -X\) 2>/dev/null`

hostinfo = `\(hostinfo\) 2>/dev/null`
/bin/universe = `\(/bin/universe\) 2>/dev/null`
/usr/bin/arch -k = `\(/usr/bin/arch -k\) 2>/dev/null`
/bin/arch = `\(/bin/arch\) 2>/dev/null`
/usr/bin/oslevel = `\(/usr/bin/oslevel\) 2>/dev/null`
/usr/convex/getsysinfo = `\(/usr/convex/getsysinfo\) 2>/dev/null`

UNAME_MACHINE = ${UNAME_MACHINE}
UNAME_RELEASE = ${UNAME_RELEASE}
UNAME_SYSTEM = ${UNAME_SYSTEM}
UNAME_VERSION = ${UNAME_VERSION}
EOF
exit 1

# Local variables:
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Version 3, 29 June 2007

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- GMP is no longer used, and instead we call BN code from OpenSSL
- Zlib is now external, in a library
- The make-ssh-known-hosts script is no longer included
- TSS has been removed
- MD5 is now external, in the OpenSSL library
- RC4 support has been replaced with ARC4 support from OpenSSL
- Blowfish is now external, in the OpenSSL library

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* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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*/

/* OPENBSD ORIGINAL: sys/sys/poll.h */

#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#ifndef_COMPAT_POLL_H_
#define_COMPAT_POLL_H_

typedef struct pollfd {
  int fd;
  short events;
  short revents;
} pollfd_t;

typedef unsigned int nfds_t;

#define POLLIN 0x0001
#define POLLOUT 0x0004
#define POLLERR 0x0008
#if 0
  /* the following are currently not implemented */
#define POLLPRI 0x0002
#define POLLHUP 0x0010
#define POLLNVAL 0x0020
#define POLLRD NORM0x0040
#define POLLNORM POLLRD NORM
#define POLLRDNORM POLLWRNORM POLLOUT
#define POLLNORM POLLWRBAND0x0080
#define POLLWRBAND0x0100
#elif 0
#endif

#define INFTIM (-1) /* not standard */

int poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */

/* $Id: bsd-waitpid.h,v 1.5 2003/08/29 16:59:52 mouring Exp $ */
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*/

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED

/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w) (*(int*)&(w)) /* convert union wait to int */
#define WIFEXITED(w) (!((_W_INT(w)) & 0377))
#define WIFSTOPPED(w) ((_W_INT(w)) & 0100)
#define WIFSIGNALED(w) (!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w) (int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
#define WTERMSIG(w) (int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG 0x80
#define WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)

/* Prototype */
pid_t waitpid(int, int *, int);
#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */

#OpenBSD: bsd.regress.mk,v 1.9 2002/02/17 01:10:15 marc Exp $
# No man pages for regression tests.
NOMAN=

# No installation.
install:
# If REGRESSTARGETS is defined and PROG is not defined, set NOPROG
.if defined(REGRESSTARGETS) && !defined(PROG)
NOREPROG=
.endif

.include <bsd.prog.mk>

.MAIN: all
all: regress

# XXX - Need full path to REGRESSLOG, otherwise there will be much pain.

REGRESSLOG?=/dev/null
REGRESSNAME=${.CURDIR:S/${BSDSRCDIR}\regress\///}

.if defined(PROG) && !empty(PROG)
run-regress-$[PROG]: $[PROG]
./[PROG]
.endif

.if !defined(REGRESSTARGETS)
REGRESSTARGETS=run-regress-$(PROG)
  if defined(REGRESSSKIP)
REGRESSSKIPTARGETS=run-regress-$(PROG)
  . endif
.endif

REGRESSSKIPSLOW?=no

#.if ($[REGRESSSKIPSLOW:1] == "yes") && defined(REGRESSSLOWTARGETS)
  if ($[REGRESSSKIPSLOW] == "yes") && defined(REGRESSSLOWTARGETS)
REGRESSSKIPTARGETS+=${REGRESSSLOWTARGETS}
  . endif
.endif

REGRESSSKIPTARGETS?=

regress:
  for RT in ${REGRESSTARGETS}
    if ${REGRESSSKIPTARGETS:MRT}
@echo -n "SKIP " >> ${REGRESSLOG}
  . else
  # XXX - we need a better method to see if a test fails due to timeout or just
  #       normal failure.
  . if !defined(REGRESSMAXTIME)
    @if cd ${.CURDIR} && ${MAKE} ${RT}; then 
      echo -n "SUCCESS " >> ${REGRESSLOG} ; 
    else 
      echo -n "FAIL " >> ${REGRESSLOG} ; 
      echo FAILED ; 
    fi
  . else
    @if cd ${.CURDIR} && (ulimit -t ${REGRESSMAXTIME} ; ${MAKE} ${RT}); then 
      echo -n "SUCCESS " >> ${REGRESSLOG} ; 
    else 
      echo -n "FAIL (possible timeout) " >> ${REGRESSLOG} ; 
      echo FAILED ; 
    fi
  . endif
  @echo ${REGRESSNAME}/${RT:S/^run-regress-//} >> ${REGRESSLOG}
endif

.PHONY: regress
This package was debianized by Jamie Beverly <soupboy@sourceforge.net> on
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  * Jamie Beverly
  * Rafael D'Halleweyn - 2011-06-05 18:56:24 EDT
--- openssh-5.3p1/sftp-server.8	2015-02-10 10:08:09.611849984 +0100
+++ openssh-5.3p1/sftp-server.8.perms	2015-02-10 10:08:52.204120509 +0100
@@ -33,6 +33,7 @@
 .Op Fl f Ar log_facility
 .Op Fl l Ar log_level
 .Op Fl u Ar umask
+.Op Fl m Ar force_file_perms
 .Sh DESCRIPTION
 .Nm
 is a program that speaks the server side of SFTP protocol
@@ -77,6 +78,10 @@
Sets an explicit
.Xr umask 2
to be applied to newly-created files and directories, instead of the
user's default mask.
+.It Fl m Ar force_file_perms
+Sets explicit file permissions to be applied to newly-created files instead
+of the default or client requested mode. Numeric values include:
+777, 755, 750, 666, 644, 640, etc. Option -u is ineffective if -m is set.
.El
.Pp
For logging to work,
--- openssh-5.3p1/sftp-server.c2015-02-10 10:08:09.611849984 +0100
+++ openssh-5.3p1/sftp-server.c.perms2015-02-10 10:39:00.855453028 +0100
@@ -70,6 +70,10 @@ Buffer oqueue;
/* Version of client */
int version;

+/* Force file permissions */
+int permforce = 0;
+long permforcemode;
+
+/* portable attributes, etc. */
/

typedef struct Stat Stat;
@@ -547,6 +547,7 @@ process_open(void)
 Attrib *a;
 char *name;
 int handle, fd, flags, mode, status = SSH2_FX_FAILURE;
+mode_t old_umask;

 id = get_int();
 name = get_string(NULL);
@@ -551,9 +555,15 @@ process_open(void)
 a = get_attrib();
 flags = flags_from_portable(pflags);
 mode = (a->flags & SSH2_FILEXFER_ATTR_PERMISSIONS) ? a->perm : 0666;
+if (permforce == 1) {   /* Force perm if -m is set */
+    mode = permforcemode;
+    old_umask = umask(0); /* so umask does not interfere */
+}
 logit("open \"%s\" flags %s mode 0%o",
    name, string_from_portable(pflags), mode);
 fd = open(name, flags, mode);
+if (permforce == 1)
+(void) umask(old_umask); /* restore umask to something sane */
 if (fd < 0) {
     status = errno_to_portable(errno);
 } else {
@@ -1322,8 +1330,8 @@ sftp_server_usage(void)
 extern char *__progname;

 fprintf(stderr,
-    "usage: %s [-he] [-l log_level] [-f log_facility] [-u umask]\n",
-    __progname);
+    "usage: %s [-he] [-l log_level] [-f log_facility] [-u umask]\n"
+    " [-m force_file_perms]\n", __progname);
 exit(1);
 }
@@ -1343,7 +1351,7 @@ sftp_server_main(int argc, char **argv,
__progname = ssh_get_progname(argv[0]);
log_init(__progname, log_level, log_facility, log_stderr);

-while (!skipargs && (ch = getopt(argc, argv, "f:l:u:che")) != -1) {
+while (!skipargs && (ch = getopt(argc, argv, "f:l:u:m:che")) != -1) {
    switch (ch) {
        case 'c':
/*
 @@ -1373,6 +1381,15 @@ sftp_server_main(int argc, char **argv,
 fatal("Invalid umask \"%s\"", optarg);
 (void)umask((mode_t)mask);
 break;
+case 'm':
+/* Force permissions on file received via sftp */
+permforce = 1;
+permforcemode = strtol(optarg, &cp, 8);
+if (permforcemode < 0 || permforcemode > 0777 ||
+    *cp != \"\" || (permforcemode == 0 &&
+    errno != 0))
+    fatal("Invalid file mode \"%s\"", optarg);
+break;
    case 'h':
    default:
    sftp_server_usage();

1.1019 openssh-clients 7.4p1-16.el7

1.1020 openssh-ldap 7.4p1 :16.el7
1.1020.1 Available under license :

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*/

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED

/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w) (*(int*)&(w)) /* convert union wait to int */
#define WIFEXITED(w) (!((_W_INT(w)) & 0377))
#define WIFSTOPPED(w) ((_W_INT(w)) & 0100)
#define WIFSIGNALED(w) (!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w) (int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
#define WTERMSIG(w) (int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG 0x80
#define WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)

/* Prototype */
pid_t waitpid(int, int *, int);
#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */

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* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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/* OPENBSD ORIGINAL: sys/sys/poll.h */

#ifndef _COMPAT_POLL_H_
#define _COMPAT_POLL_H_

typedef struct pollfd {
    int fd;
    short events;
    short revents;
} pollfd_t;

typedef unsigned int nfds_t;

#define POLLIN 0x0001
#define POLLOUT 0x0004
#define POLLERR 0x0008
#if 0
/* the following are currently not implemented */
#define POLLPRI 0x0002
#define POLLHUP 0x0010
#define POLLNVAL 0x0020
#define POLLRDND0 0x0040
#define POLLNORMPOLLRDND0
#define POLLRDNORM POLLRDND0
#define POLLWRNORM POLLOUT
#define POLLRDND0 0x0080
#define POLLWRBAND0 0x0100
#endif

#define INFTIM (-1) /* not standard */

int poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */

/* $Id: bsd-waitpid.h,v 1.5 2003/08/29 16:59:52 mourning Exp $ */

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#define _BSD_WAITPID_H

#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED

/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w) (*((int*)&(w))) /* convert union wait to int */
#define WIFEXITED(w) (!(_W_INT(w)) & 0377)
#define WIFSTOPPED(w) (_W_INT(w)) & 0100)
#define WIFSIGNALED(w) !WIFEXITED(w) & !WIFSTOPPED(w)
#define WEXITSTATUS(w) (_W_INT(w) >> 8) & 0377)
#define WTERMSIG(w) (_W_INT(w) & 0177)
#define WCOREFLAG 0x80
#define WCOREDUMP(w) (_W_INT(w) & WCOREFLAG)

/* Prototype */
pid_t waitpid(int, int *, int);

#endif /* HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */
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1.1021 openssl 1.0.2p

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[This is the first released version of the library GPL. It is
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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software
sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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1.1033 pam 1.1.1 :20.el6

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1.1035 pango 1.36.8 :2.el7

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1.1044 pciutils 3.5.1 :3.el7

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1.1045 pcre 8.32 :15.el7
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1.1048 perl 5.10.1 :127.el6
1.1048.1 Available under license:

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ABOUT PERL
==========

Perl is a general-purpose programming language originally developed for text manipulation and now used for a wide range of tasks including system administration, web development, network programming, GUI development, and more.

The language is intended to be practical (easy to use, efficient, complete) rather than beautiful (tiny, elegant, minimal). Its major features are that it's easy to use, supports both procedural and object-oriented (OO) programming, has powerful built-in support for text processing, and has one of the world's most impressive collections of third-party modules.

For an introduction to the language's features, see pod/perlintro.pod.

For a discussion of the important changes in this release, see pod/perl5101delta.pod. (This will also be installed as perldelta.pod).

There are also many Perl books available, covering a wide variety of topics, from various publishers. See pod/perlbook.pod for more information.

INSTALLATION
============

If you're using a relatively modern operating system and want to install this version of Perl locally, run the following commands:

```
./Configure -des -Dprefix=$HOME/localperl
make test
make install
```

This will configure and compile perl for your platform, run the regression tests, and install perl in a subdirectory "localperl" of your home directory.
If you run into any trouble whatsoever or you need to install a customized version of Perl, you should read the detailed instructions in the "INSTALL" file that came with this distribution. Additionally, there are a number of "README" files with hints and tips about building and using Perl on a wide variety of platforms, some more common than others.

Once you have Perl installed, a wealth of documentation is available to you through the 'perldoc' tool. To get started, run this command:

```
perldoc perl
```

**IF YOU RUN INTO TROUBLE**

Perl is a large and complex system that's used for everything from knitting to rocket science. If you run into trouble, it's quite likely that someone else has already solved the problem you're facing. Once you've exhausted the documentation, please report bugs to us using the 'perlbug' tool. For more information about perlbug, either type 'perldoc perlbug' or just 'perlbug' on a line by itself.

While it was current when we made it available, Perl is constantly evolving and there may be a more recent version that fixes bugs you've run into or adds new features that you might find useful.

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.5 of 10 December 2007

--------------------------------------------------------------------------

1.1049 perl 5.16.3 :286.el7
1.1049.1 Available under license :

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

---

abstract: 'Build and install Perl modules'
author:
  - 'Ken Williams <kwilliams@cpan.org>'
  - "Development questions, bug reports, and patches should be sent to the
    Module-Build mailing list at <module-build@perl.org>.",'
built_requires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
version: 1.4
name: Module-Build
resources:
use strict;
use lib 't/lib';
use MBTest;
use DistGen;

plan 'no_plan';

# Ensure any Module::Build modules are loaded from correct directory
blib_load('Module::Build');

#---------------------------------------------#
# Create test distribution
#---------------------------------------------#

{
    my $dist = DistGen->new(
        name => 'Simple::Name',
        version => '0.01',
        license => 'perl'
    );

    $dist->regen;
    $dist->chdir_in;

    my $mb = $dist->new_from_context();
    isa_ok( $mb, "Module::Build" );
    is( $mb->license, 'perl', "license 'perl' is valid" );

    my $meta = $mb->get_metadata( fatal => 0 );

    is( $meta->{license} => 'perl', "META license will be 'perl'" );
    is( $meta->{resources}{license}, "http://dev.perl.org/licenses/", "META license URL is correct" );

}

{
    my $dist = DistGen->new(
        name => 'Simple::Name',
        version => '0.01',
        license => 'VaporWare'
    );

    $dist->regen;
    $dist->chdir_in;

    my $mb = $dist->new_from_context();
    isa_ok( $mb, "Module::Build" );
    is( $mb->license, 'VaporWare', "license 'VaporWare' is valid" );

    my $meta = $mb->get_metadata( fatal => 0 );

    is( $meta->{license} => 'VaporWare', "META license will be 'VaporWare'" );
    is( $meta->{resources}{license}, "http://dev.perl.org/licenses/", "META license URL is correct" );

}
$dist->regen;
$dist->chdir_in;

my $mb = $dist->new_from_context();
isa_ok( $mb, "Module::Build" );
is( $mb->license, 'VaporWare',
  "license 'VaporWare' is valid"
);

my $meta = $mb->get_metadata( fatal => 0 );

is( $meta->{license} => 'unrestricted', "META license will be 'unrestricted'" );
is( $meta->{resources}[license], "http://example.com/vaporware/",
  "META license URL is correct"
);

}

# Test with alpha number
# vim:ts=2:sw=2:et:sta:sts=2
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1.1050 perl 5.26.3-405

1.1051 perl-Archive-Tar 2.26-6

1.1052 perl-Attribute-Handlers 0.99-404.el7

1.1053 perl-Authen-SASL 2.15 :10.el7

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<signature of Ty Coon>, 1 April 1989
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1.1055 perl-B-Debug 1.26 :2.el7
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

-------------------------------------------------------------------------

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1.1064 perl-Config-Perl-V 0.29 :3.el7

1.1065 perl-constant 1.33 :396.el7
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1.1066 perl-constant 1.27 :2.el7.centos

1.1067 perl-constant 1.27 :2.el7

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1.1068 perl-CPAN 2.18-398.el7

1.1069 perl-CPAN-Meta 2.150010-396

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---
abstract: 'Build and install Perl modules'
author:
  - 'Ken Williams <kwilliams@cpan.org>,'
  - "Development questions, bug reports, and patches should be sent to the
    Module-Build mailing list at <module-build@perl.org>.,"
built_requires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Module-Build
resources:
  MailingList: mailto:module-build@perl.org
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version: 3
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1.1071 perl-CPAN-Meta-YAML 0.018-397.el7

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1.1076 perl-DB_File 1.830 :3.el7

1.1077 perl-DB_File 1.840-397

1.1078 perl-DBI 1.627 :4.el7

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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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1.1080 perl-Devel-Peek 1.26-405

1.1081 perl-Devel-SelfStubber 1.0.6-405

1.1082 perl-Digest 1.17 :395.el7

1.1083 perl-Digest 1.17 :245.el7
1.1083.1 Available under license :
   From RPM File Metadata:GPL+ or Artistic

1.1084 perl-Digest-HMAC 1.03 :5.el7
1.1084.1 Available under license :
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1.1085 perl-Digest-MD5 2.52 :3.el7
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1.1086 perl-Digest-SHA 5.85 :4.el7

1.1087 perl-Encode 2.93 :16.el7

1.1088 perl-Encode 2.51 :7.el7
1.1088.1 Available under license:
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1.1089 perl-Encode-Locale 1.03 :5.el7
1.1089.1 Available under license:
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1.1090 perl-encoding 2.19 :16.el7
1.1090.1 Available under license:
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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bzip2/libbzip2 version 1.0.6 of 6 September 2010

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1.1095 perl-Exporter 5.72-396

1.1096 perl-Exporter 5.68 :3.el7
1.1096.1 Available under license :
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1.1097 perl-ExtUtils-Command 7.30-5

1.1098 perl-ExtUtils-Embed 1.34-405.el7.noarch

1.1099 perl-ExtUtils-Install 2.14-4

1.1100 perl-ExtUtils-MakeMaker 7.30 :5.el7

1.1101 perl-ExtUtils-Manifest 1.70-395
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1.1102 perl-ExtUtils-Manifest 1.06-404

1.1103 perl-ExtUtils-Miniperl 1.06-405

1.1104 perl-FCGI 0.74 :8.el7

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1.1106 perl-File-Path 2.09 :2.el7

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1.1107 perl-File-Temp 0.23.01 :3.el7

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1.1109 perl-Filter 1.49 :3.el7
1.1109.1 Available under license :
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1.1110 perl-Filter 1.58 :2.el7

1.1111 perl-Filter-Simple 0.94-2.el7

1.1112 perl-Getopt-Long 2.40 :3.el7

1.1113 perl-Getopt-Long 2.40 :2.el7
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1.1115 perl-GSSAPI 0.28 :9.el7
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1.1116 perl-HTML-Parser 3.71 :4.el7
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1.1117 perl-HTML-Tagset 3.20 :15.el7
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1.1120 perl-IO 1.38-405

1.1121 perl-IO 1.38 :404.el7

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

1.1122 perl-IO-Compress 2.074 :397.el7

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1.1125 perl-IO-Socket-IP 0.21 :5.el7

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1.1126 perl-IO-Zlib 1.10-405

1.1127 perl-IPC-System-Simple 1.25 :17.el7

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1.1129 perl-libs 5.16.3-294

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

---
abstract: 'Build and install Perl modules'
author: 
  - 'Ken Williams <kwilliams@cpan.org>'
  - "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-build@perl.org>,"
built_requires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Module-Build
resources: 
  MailingList: mailto:module-build@perl.org
  license: http://dev.perl.org/licenses/
  repository: http://github.com/dagolden/module-build/
  version: 3
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```
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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---
abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>'
- "Development questions, bug reports, and patches should be sent to the\aModule-Build mailing list at <module-build@perl.org>.'
built_requires: File::Temp: 0.15
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------------------------------------------------------------------------

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use strict;
use lib 't/lib';
use MBTest;
use DistGen;

plan 'no_plan';

# Ensure any Module::Build modules are loaded from correct directory
blib_load('Module::Build');

# Create test distribution
#
#
{
  my $dist = DistGen->new(
    name => 'Simple::Name',
    version => '0.01',
    license => 'perl'
  );

  $dist->regen;
  $dist->chdir_in;

  my $mb = $dist->new_from_context();
  isa_ok( $mb, "Module::Build" );
  is( $mb->license, 'perl',
    "license 'perl' is valid"
  );

  my $meta = $mb->get_metadata( fatal => 0 );

  is( $meta->{license} => 'perl', "META license will be 'perl'" );
  is( $meta->{resources} {license}, "http://dev.perl.org/licenses/",
    "META license URL is correct"
  );
}

Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

--------------------------------------------------------------------------

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--------------------------------------------------------------------------
my $dist = DistGen->new(
    name => 'Simple::Name',
    version => '0.01',
    license => 'VaporWare'
);

$dist->regen;
$dist->chdir_in;

my $mb = $dist->new_from_context();
isa_ok( $mb, "Module::Build" );
is( $mb->license, 'VaporWare',
    "license 'VaporWare' is valid"
);

my $meta = $mb->get_metadata( fatal => 0 );

is( $meta->{license} => 'unrestricted', "META license will be 'unrestricted'" );
is( $meta->{resources}{license}, "http://example.com/vaporware/",
    "META license URL is correct"
);

# Test with alpha number
# vim:ts=2:sw=2:et:sta:sts=2

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<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

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Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19xx name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (a program to direct compilers to make passes at assemblers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

That's all there is to it!

The "Artistic License"

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The End
From f5488561bdaab57380bf07e8e66778503a41aca3 Mon Sep 17 00:00:00 2001
From: Father Chrysostomos <sprout@cpan.org>
Date: Sun, 23 Sep 2012 12:42:15 -0700
Subject: [PATCH] =?UTF-8?q?Don=E2=80=99t=20leak=20if=20hh=20copying=20dies?==
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit

When %^H is copied on entering a new scope, if it happens to have been tied it can die. This was resulting in leaks, because no protections were added to handle that case.

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By fixing newSVsv itself, this also fixes any potential leaks when other pieces of code call newSVsv on explosive values.

Petr Pisa: Ported to 5.16.3
---

hv.c | 6 ++++++
sv.c | 7 ++++-
t/op/svleak.t | 22 ++++++++++++++++++++

---
3 files changed, 31 insertions(+), 4 deletions(-)

diff --git a/hv.c b/hv.c
index 3c35341..29d6352 100644
--- a/hv.c
+++ b/hv.c
@@ -1440,6 +1440,9 @@ Perl_hv_copy_hints_hv(pTHX_ HV *const ohv)
   const I32 riter = HvRITER_get(ohv);
   HE * const eiter = HvEITER_get(ohv);

+ENTER;
+SAVEFREESV(hv);
+
while (hv_max && hv_max + 1 >= hv_fill * 2)
   hv_max = hv_max / 2;
HvMAX(hv) = hv_max;
@@ -1461,6 +1464,9 @@ Perl_hv_copy_hints_hv(pTHX_ HV *const ohv)
 }
HvRITER_set(ohv, riter);
HvEITER_set(ohv, eiter);
+
+SvREFCNT_inc_simple_void_NN(hv);
+LEAVE;
}
hv_magic(hv, NULL, PERL_MAGIC_hints);
return hv;
diff --git a/sv.c b/sv.c
index a43feac..597d71b 100644
--- a/sv.c
+++ b/sv.c
@@ -8764,11 +8764,12 @@ Perl_newSVsv(pTHX_ register SV *const old)
       Perl_ck_warner_d(aTHX_ packWARN(WARN_INTERNAL), "semi-panic: attempt to dup freed string");
   return NULL;
+
   /* Do this here, otherwise we leak the new SV if this croaks. */
   SvGETMAGIC(old);
   new_SV(sv);
-/* SV_GMAGIC is the default for sv_setv() */
-/* SV_NOSTEAL prevents TEMP buffers being, well, stolen, and saves games */
+/* SV_NOSTEAL prevents TEMP buffers being, well, stolen, and saves games */
   with SvTEMP_off and SvTEMP_on round a call to sv_setsv. */
- sv_setsv_flags(sv, old, SV_GMAGIC | SV_NOSTEAL);
+ sv_setsv_flags(sv, old, SV_NOSTEAL);
   return sv;
}
diff --git a/t/op/svleak.t b/t/op/svleak.t
index 2f09af3..011c184 100644
--- a/t/op/svleak.t
+++ b/t/op/svleak.t
@@ -13,7 +13,7 @@ BEGIN {
  or skip_all("XS::APItest not available");
 }

-plan tests => 23;
+plan tests => 24;

# run some code N times. If the number of SVs at the end of loop N is
# greater than (N-1)*delta at the end of loop 1, we've got a leak
@@ -176,3 +176,23 @@ leak(2, 0, sub {
   each %$h;
   undef $h;
 }, 'tied hash iteration does not leak');
+
+# [perl #107000]
+package hhtie {
+  sub TIEHASH { bless [] }
+  sub STORE    { $_[0][0]{$_[1]} = $_[2] }  
+  sub FETCH    { die if $explosive; $_[0][0]{$_[1]} }  
+  sub FIRSTKEY { keys %{$_[0][0]}; each %{$_[0][0]} }  
+  sub NEXTKEY  { each %{$_[0][0]} }  
+}
+leak(2,!!$Config{mad}, sub {
+  eval q`
  BEGIN {
   $hhtie::explosive = 0;
   tie %^H, hhtie;
   $^H{foo} = bar;
   $hhtie::explosive = 1;
   }
+  }
+};'hint-hash copying does not leak');
--
1.8.1.4

1.1130 perl-libs 5.26.1 :404.el7

1.1130.1 Available under license:

use strict;
use lib 't/lib';
use MBTest;
use DistGen;

plan 'no_plan';
# Ensure any Module::Build modules are loaded from correct directory
blib_load('Module::Build');

#--------------------------------------------------------------------------#
# Create test distribution
#--------------------------------------------------------------------------#
{
    my $dist = DistGen->new(
        name => 'Simple::Name',
        version => '0.01',
        license => 'perl'
    );

    $dist->regen;
    $dist->chdir_in;

    my $mb = $dist->new_from_context();
    isa_ok( $mb, "Module::Build" );
    is( $mb->license, 'perl',
        "license 'perl' is valid"
    );

    my $meta = $mb->get_metadata( fatal => 0 );

    is( $meta->{license} => 'perl', "META license will be 'perl'" );
    is( $meta->{resources}{license}, "http://dev.perl.org/licenses/",
        "META license URL is correct"
    );
}

{
    my $dist = DistGen->new(
        name => 'Simple::Name',
        version => '0.01',
        license => 'VaporWare'
    );

    $dist->regen;
    $dist->chdir_in;

    my $mb = $dist->new_from_context();
    isa_ok( $mb, "Module::Build" );
    is( $mb->license, 'VaporWare',
        "license 'VaporWare' is valid"
    );
}
my $meta = $mb->get_metadata( fatal => 0 );

is( $meta->{license} => 'unrestricted', "META license will be 'unrestricted'" );
is( $meta->{resources} {license}, "http://example.com/vaporware/",
   "META license URL is correct"
);

#

This module is free software; you can redistribute it and/or
modify it under the same terms as Perl itself.
From f5488561bdaab57380bf07e8e66778503a41aca3 Mon Sep 17 00:00:00 2001
From: Father Chrysostomos <sprout@cpan.org>
Date: Sun, 23 Sep 2012 12:42:15 -0700
Subject: [PATCH] =?UTF-8?q?Don=E2=80=99t=20leak=20if=20hh=20copying=20dies?==
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit

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tied it can die. This was resulting in leaks, because no protections
were added to handle that case.

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and the new value (for an element) in newSVsv.

By fixing newSVsv itself, this also fixes any potential leaks when
other pieces of code call newSVsv on explosive values.

Petr Pisar: Ported to 5.16.3
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By fixing newSVsv itself, this also fixes any potential leaks when
other pieces of code call newSVsv on explosive values.
SAVEFREESV(hv);
+
while (hv_max && hv_max + 1 >= hv_fill * 2)
  hv_max = hv_max / 2;
HvMAX(hv) = hv_max;
@@ -1461,6 +1464,9 @@ Perl_hv_copy_hints_hv(pTHX_ HV *const ohv)
 }
HvRITER_set(ohv, riter);
HvEITER_set(ohv, eiter);
+
+SvREFCNT_inc_simple_void_NN(hv);
+LEAVE;
 }
  hv_magic(hv, NULL, PERL_MAGIC_hints);
  return hv;
diff --git a/sv.c b/sv.c
index a43feac..597d71b 100644
--- a/sv.c
+++ b/sv.c
@@ -8764,11 +8764,12 @@ Perl_newSVsv(pTHX_ register SV *const old)
   Perl_ck_warner_d(aTHX_ packWARN(WARN_INTERNAL), "semi-panic: attempt to dup freed string");
   return NULL;
 }
+ /* Do this here, otherwise we leak the new SV if this croaks. */
+ SvGETMAGIC(old);
+ new_SV(sv);
- /* SV_GMAGIC is the default for sv_setv() */
- SV_NOSTEAL prevents TEMP buffers being, well, stolen, and saves games
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+ SV_NOSTEAL prevents TEMP buffers being, well, stolen, and saves games
   with SvTEMP_off and SvTEMP_on round a call to sv_setsv. */
- sv_setsv_flags(sv, old, SV_GMAGIC | SV_NOSTEAL);
+ sv_setsv_flags(sv, old, SV_NOSTEAL);
   return sv;
 }

diff --git a/t/op/svleak.t b/t/op/svleak.t
index 2f09af3..011c184 100644
--- a/t/op/svleak.t
+++ b/t/op/svleak.t
@@ -13,7 +13,7 @@ BEGIN {
   or skip_all("XS::APItest not available");
 }

-plan tests => 23;
+plan tests => 24;

# run some code N times. If the number of SVs at the end of loop N is
# greater than (N-1)*delta at the end of loop 1, we've got a leak
@@ -176,3 +176,23 @@ leak(2, 0, sub {
    each %$h;
    undef $h;
}, 'tied hash iteration does not leak');
+
+# [perl #107000]
+package hhtie {
+    sub TIEHASH { bless [] }
+    sub STORE    { $_[0][0]{$_[1]} = $_[2] }
+    sub FETCH    { die if $explosive; $_[0][0]{$_[1]} }
+    sub FIRSTKEY { keys %$_[0][0]; each %$_[0][0] }
+    sub NEXTKEY  { each %$_[0][0] }
+
+} leak(2,!!$Config{mad}, sub {
+    eval q`
+    BEGIN {
+        $hhtie::explosive = 0;
+        tie %^H, hhtie;
+        $^H{foo} = bar;
+        $hhtie::explosive = 1;
+    }
+    { 1; }
+    `;
+}, 'hint-hash copying does not leak');
--
1.8.1.4
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---
abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>'
- "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-build@perl.org>.'"
buildRequires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Module-Build
resources:
  MailingList: mailto:module-build@perl.org
  license: http://dev.perl.org/licenses/
  repository: http://github.com/dagolden/module-build/
  version: 3

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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1.1131 perl-local-lib 2.000024-2.el7

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1.1133 perl-Locale-Maketext-Simple 0.21-405

1.1134 perl-LWP-MediaTypes 6.02 :2.el7

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

--------------------------------------------------------------------------------

1.1145 perl-Module-Loaded 0.08-404

1.1146 perl-Module-Metadata 1.000033-395.el7

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1.1147 perl-Mozilla-CA 20130114 :5.el7
1.1147.1 Available under license :
   From RPM File Metadata:MPLv1.1 or LGPLv2+ or GPLv2+

1.1148 perl-MRO-Compat 0.13-4.el7

1.1149 perl-Net-Daemon 0.48 :5.el7
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It was created by Thomas Jacob <jacob@internet24.de> using dh-make-perl.

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1.1151 perl-Net-Ping 2.55 :404.el7

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<one line to give the program's name and a brief idea of what it does.>
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when it starts in an interactive mode:

    Gnomovision version 69, Copyright (C) 19xx name of author
    Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
    This is free software, and you are welcome to redistribute it
    under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the
appropriate parts of the General Public License. Of course, the
commands you use may be called something other than `show w' and `show
c'; they could even be mouse-clicks or menu items--whatever suits your
program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here a sample; alter the names:

    Yoyodyne, Inc., hereby disclaims all copyright interest in the
    program `Gnomovision' (a program to direct compilers to make passes
    at assemblers) written by James Hacker.

    <signature of Ty Coon>, 1 April 1989
    Ty Coon, President of Vice
That's all there is to it!

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010
1.1154 perl-Net-SSLeay 1.55 :6.el7

1.1154.1 Notifications:

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This product includes cryptographic software written by Eric Young (eay@cryptsoft.com).
This product includes software written by Tim Hudson (tjh@cryptsoft.com).

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README - Net::SSLeay Perl module for using OpenSSL
$Id: README 370 2013-03-22 00:28:13Z mikem-guest$

By popular demand...

---------------

perl -MNet::SSLeay -e '($p)=Net::SSLeay::get_https("www.openssl.org", 443, "/"); print $p'

Prerequisites

-------------

perl-5.6.1
though anything starting from perl5.003 probably works.
OpenSSL-0.9.6j or OpenSSL-0.9.7b
(try http://www.openssl.org/)
This release has been tested with 0.9.6d and
in historical light it seems likely that future versions
will work as well (if major version number changes all bets
are off, though)

Note: SSLeay is no longer supported. If you want to use Net::SSLeay with
SSLeay or early versions of OpenSSL, use version 1.03. The support
for SSLeay was dropped due to nobody maintaining it (all active
work goes on with OpenSSL) and due to incompatible API changes
in OpenSSL-0.9.2b. OpenSSL-0.9.1c support has also been dropped,
version 1.03 was the last one to support that.

You should use the same C compiler and options to compile OpenSSL,
perl, and Net::SSLeay. This is the only supported configuration. If you insist on using different compilers (perhaps because you obtained either OpenSSL or perl as binaries from a vendor and they used a compiler that you do not have) then all requests for support will be ignored. If the only way for you to use the same compiler for all three components is to recompile your openssl or perl, then that is exactly what I expect you to do before asking for support.

Installing
----------

Unix:
# build OpenSSL as per instructions in that package

gunzip <Net-SSLeay.pm-1.35.tar.gz | tar xvf -
cd Net-SSLeay.pm-1.35
perl Makefile.PL # builds and tests it
make test # Run the test suite
make install # You probably have to su to root to do this

HPUX:
In principle the Unix build should work (Makefile.PL contains special code to detect aCC), but historically there have been some problems. Marko Asplund (aspa@@kronodoc._fi) reports that he has successfully compiled on HP-UX. He used following incantations

Configuring OpenSSL:

./Configure no-assembler --prefix=/openssl/path hpux-parisc2-cc

Configuring Net::SSLeay:

OPENSSL_PREFIX=/openssl/path perl Makefile.PL CCFLAGS='-D_HPUX_SOURCE \ -Aa -I/usr/local/include +e'

The magic bit seemed to be the `+e' flag. Since version 1.14 Makefile.PL tries to figure this out.

He was using: gcc v2.95.2, OpenSSL v0.9.6c, Net::SSLeay-1.13

Windows:
Supported on 32 and 64 bit platforms
See README.Win32 for details

You should also be able to use CPAN.pm to install this module if you like.

Linking with RSAref is no longer supported (the patent issue is moot)
due to patent expiring). If you want to try it, you are on your own, but here's how it used to work...

For linking against RSAref the the OPENSSL_RSAREF environment variable like this:

```
OPENSSL_RSAREF=1 ./Makefile.PL -t # builds and tests it, link against RSAref
```

You must previously have built OpenSSL with RSAref support (which implies first building rsaref itself), I use the RSAglue method. File librsaref.a must be found in one of the locations searched by linker (-L switches). Usually this means that you have to rename rsaref.a to librsaref.a and copy it to suitable directory, e.g. /usr/local/ssl/lib.

N.B. AFAIK the patent that made using RSAref necessary has expired, so this should be nonissue by now.

Problems (read this before sending mail)

----------------------------------------

Please, do not send bug report before you have
- compiled your OpenSSL yourself - don't copy binaries, please
- compiled your perl yourself and with substantially same CFLAGS and same C compiler (say `which cc' or `which gcc') as your OpenSSL.
This is especially applicable to link errors and shared library loading problems. Please do not even dream of copying a perl binary or installing perl binary from a package.
Perl's idea of calling conventions has to match OpenSSL's and unfortunately both are quite advanced pieces of code (guru duel: Larry Wall vs. Eric Young :-) with dynamic loading and who knows what
- compiled my module from source against correct perl (say `which perl' and check your path). Generally my module's build process will discover correct compiler and flags from `perl -V'
- tried gcc, if your vendor cc fails

If you post a question or make a bug report, please remember to mention
- Your platform and OS version (i386 Linux, Sparc Solaris, etc) (uname -a)
- On Linux, please report glibc version as well (ls -l /lib/libc*)
- Net::SSLeay version (see tar ball)
- OpenSSL version ('/usr/local/ssl/bin/openssl version')
- ANSI C compiler brand and version (e.g. gcc -v)

If build fails,
- three compiler warnings are known to be emitted (due to lack of const in some places), one of them indicates a fatal bug in callback handling,
but as I have not yet sorted it out, you'll simply have to ignore it
- if you installed OpenSSL from some distribution, try getting a fresh
copy from www.openssl.org and recompiling and installing it yourself
- make sure you are not being confused by the fact that OpenSSL-0.9.3
changed the location of include files to /usr/local/ssl/include/openssl/*
Consider deleting all old bogus headers
- if using newer than supported OpenSSL, please downgrade to supported
version to see if it makes difference
- you must compile the module, perl, and openssl with the same C compiler
and the same options. Use perl -V to check what options were used and
recompile openssl and Net::SSLeay accordingly
- never report bugs related to binary installs. First compile _yourself_
perl, openssl and my module, always using the same compiler and
compiler flags. Many distros are known to "know better" and thus
cause problems for their users. I'm not very sympathetic to having
to answer end user questions thus created.
- send full output of `make clean; perl Makefile.PL -t`

If make test fails, please
- one warning is known to be emitted between tests 4 and 5 (callback)
- edit test.pl and set $trace=2
- send full output of `make clean; perl Makefile.PL -t`
- send contents of sslecho.log

If you have problems with a site, please
- what site, what server software (including version and platform)
- does it reproduce with s_client, try with something like

    echo 'GET / | /usr/local/ssl/bin/openssl s_client -connect www.bacus.pt:443

- does it reproduce with popular web browsers
- play with Net::SSLeay::ssl_version (see top of SSLeay.pm)
- does the site run exotic configuration, e.g. insisting on specific
  protocol version, limiting available ciphers, using nonstandard
ciphers, weird authentication arrangements, etc.)
- contact the owner of the server to see what the problem looks like
  in his end. He should be able to tell you the exact versions used
  and the error messages he is seeing in his log
- if you ask me to check a site out, you are granting me permission
  to access that site and will pay all legal expenses to defend me
  in court as well as any remedies that may be granted to the site
  in case the site decides to sue me. You warrant that you are
  authorized to give me permission to access the site.
- if you ask me to check a site, please send me a working URL and
  include any authentication credentials if needed. If your site
  is so confidential that you can not give me an URL, then do
  not ask me to debug your problems.
HP-UX is known to give some problems, please mail me or the mailing list so we can get these problems straightened. Hint: it has to do with dynamic loading. One user reports that adding `-lgcc' to EXTRALIBS and LD_LOAD_LIBS in Makefile fixes the problem. I have not received any confirmation whether this fix really works, but its worth a try. Another bag of problems is people installing against binary distributed perl and compiling the package with different cc or different options. Generally this will never work. Please compile _yourself_ your perl, openssl, and the module, always with the same compiler and compiler flags.

Solaris 8 does not come standard with /dev/random or /dev/urandom, and the 'make test' assumes that some source of randomness is available. 'make test' will fail on Solaris 8 if /dev/urandom is not available. The error message seen with trace enabled will be "SSL_GET_NEW_SESSION:ssl session id callback failed". In order to fix this, you must install Sun patch 112438-03 from http://sunsolve.sun.com

#: unzip 112438-03.zip
#: patchadd ./112438-03
You will probably need to reboot your system:
#: reboot

I have a report (schinder@@pobox._com) of make test segfaulting on Linux-PPC. This still needs to be investigated. No recent information has been received.

It seems perl5.004 (at least some versions) has bad xsub compiler which can make builds sometimes fail. Try upgrading to perl-5.6.1 first.

"Random number generator not seeded!!!" This warning indicates that randomize() was not able to read /dev/random or /dev/urandom, possibly because your system does not have them or they are differently named. You can still use SSL, but the encryption will not be as strong.

Did you read the POD documentation (if you don't know what that is, just say `perldoc Net::SSLeay' or `more SSLeay.pm')?

Are you sure you didn't confuse `Net::SSLeay' with `SSLeay' that comes with OpenSSL?

My development environments used to be

i686,   Linux-2.4.3, gcc-2.92.2, glibc-2.2, perl-5.6.0, openssl-0.9.6a
i686,   Linux-2.4.3, gcc-2.92.2, glibc-2.2, perl5.005_02, openssl-0.9.6a
i686,   Linux-2.0.35, gcc-2.7.2.3, glibc-2.0.6, perl5.005_02, openssl-0.9.5a
i586,   Linux-2.4.3, gcc-2.92.2.1, glibc-2.2.2, perl-5.6.0, openssl-0.9.6a
i586,   Linux-2.4.3, gcc-2.92.2.1, glibc-2.2.2, perl5.005_03, openssl-0.9.6
Unfortunately I do not have access to other systems so you are somewhat on your own. Everything compiles without a warning (except those mentioned above) on my systems.

Check that perl is finding your OpenSSL.

If `make test' bombs, add following line to the test script that fails:

$Net::SSLeay::trace = 2;

and see what happens. You may also have to edit test.pl to make sure the debugging output gets printed.

If `make test' prints lots of `connect: Connection refused...' errors, then sslecho.pl test server has died. It is supposed to be launched in the beginning of test.pl, but can fail if, e.g. port 1212 is taken or in TIMEWAIT state. Look also in ssleacho.log file for diagnostics.

If you are really low on memory and the 1 MB tests fail, edit value of $mb variable in test.pl.

If you get core dump, build your perl for debugging (add -g to cflags, see INSTALL in perl distribution), build your SSLeay for debugging as well, add -g flag to Makefile.PL:

make clean
perl Makefile.PL -g
make static
make test_static
gdb perl core     # post mortem
    > bt          # show stack trace
gdb perl        # run live with debugging
    # set break point in SSLeay.xs or in suspect function of OpenSSL
    > br XS_NET__SSLeay_connect
    > run yoursript.pl arg arg

For gdb'ing make sure gdb finds all the relevant source code. This may mean that you must run perl and OpenSSL from the directories where the respective makefiles build them.

You can also enable PR and PRN macros in SSLeay.xs and sprinkle even some more around the code to figure out what’s happening.

Some exotic configurations of perl may cause unstability: make sure OpenSSL uses the same malloc as perl. Recompile perl without
threads. Try not using the PerlIO abstraction.

If you need to tweak build for some platform, please let me know so I can fix it. Patches and gdb session dumps are also welcome.

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Recommended reading
---------------------

==> HTTP protocol specification. It applies 100% to HTTPS too and doing password authentication is explained there. <==

If you are newbie interested in grabbing web pages from https servers, please read HTTP documentation from http://www.w3c.org/ before asking trivial questions. That document also covers the basic-auth FAQ (URLs like http://user:pass@host). Do not ask questions about authentication before consulting the HTTP specification. HTTPS is just HTTP in SSL transport.

If you are doing advanced stuff, and don't find documentation you need, please try to extrapolate from OpenSSL documentation (which unfortunately is quite sparse) and the source code.

If you run into build problems, especially regarding shared libraries, check your perl documentation, especially the perlxut(1) man page, which gives excellent tutorial of the build process of XSUBs.

perlxut(1)
perlxs(1)
perlguts(1)
perlcalls(1)

Say `perldoc Net::SSLeay' _NOW_!

To download OpenSSL, try URL http://www.openssl.org/

Of related interest may be `http://www.symlabs.com/Net_SSLeay/smime.html'

Bug reports, patch submission, feature requests, subversion access to the latest
source code etc can be obtained at
http://alioth.debian.org/projects/net-ssleay

The developer mailing list (for people interested in contributin to the source code)
can be found at
http://lists.alioth.debian.org/mailman/listinfo/net-ssleay-devel

1.1155 perl-open 1.11-405

1.1156 perl-Package-Generator 1.106 :12.el7

1.1156.1 Available under license :

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1.1157 perl-Params-Check 0.38-395

1.1158 perl-Params-Util 1.07 :21.el7

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1.1166 perl-PIRPC 0.2020-14.el7

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1.1168 perl-Pod-Escapes 1.04 :294.el7_6
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The End
When `%^H` is copied on entering a new scope, if it happens to have been tied it can die. This was resulting in leaks, because no protections were added to handle that case.

The two things that were leaking were the new hash in `hv_copy_hints_hv` and the new value (for an element) in `newSVsv`.

By fixing `newSVsv` itself, this also fixes any potential leaks when other pieces of code call `newSVsv` on explosive values.

Petr Pisar: Ported to 5.16.3

---

```
| 6 ++++++
sv.c | 7 ++++-
t/op/svleak.t | 22 ++++++++++++++++++-
```

3 files changed, 31 insertions(+), 4 deletions(-)

```diff
diff --git a/hv.c b/hv.c
index 3c35341..29d6352 100644
--- a/hv.c
+++ b/hv.c
@@ -1440,6 +1440,9 @@ Perl_hv_copy_hints_hv(pTHX_ HV *const ohv)
 const I32 riter = HvRITER_get(ohv);
 HE * const eiter = HvEITER_get(ohv);
 }
+SAVEFREESV(hv);
+while (hv_max && hv_max + 1 >= hv_fill * 2)
+    hv_max = hv_max / 2;
 HvMAX(hv) = hv_max;
@@ -1461,6 +1464,9 @@ Perl_hv_copy_hints_hv(pTHX_ HV *const ohv)
 } }
 HvRITER_set(ohv, riter);
 HvEITER_set(ohv, eiter);
+SAFEFREESV(hv);
+while (hv_max && hv_max + 1 >= hv_fill * 2)
+    hv_max = hv_max / 2;
 HvMAX(hv) = hv_max;
```

`hv_magic(hv, NULL, PERL_MAGIC_hints);`
diff --git a/sv.c b/sv.c
index a43feac..597d71b 100644
--- a/sv.c
+++ b/sv.c
@@ -8764,11 +8764,12 @@ Perl_newSVsv(pTHX_register SV *const old)
 Perl_ck_warner_d(aTHX_packWARN(WARN_INTERNAL), "semi-panic: attempt to dup freed string");
 return NULL;
 }
+ /* Do this here, otherwise we leak the new SV if this croaks. */
+ SvGETMAGIC(old);
  new_SV(sv);
- /* SV_GMAGIC is the default for sv_setv()
-  SV_NOSTEAL prevents TEMP buffers being, well, stolen, and saves games
+ /* SV_NOSTEAL prevents TEMP buffers being, well, stolen, and saves games
 with SvTEMP_off and SvTEMP_on round a call to sv_setsv. */
- sv_setsv_flags(sv, old, SV_GMAGIC | SV_NOSTEAL);
+ sv_setsv_flags(sv, old, SV_NOSTEAL);
  return sv;
 }

diff --git a/t/op/svleak.t b/t/op/svleak.t
index 2f09af3..011c184 100644
--- a/t/op/svleak.t
+++ b/t/op/svleak.t
@@ -13,7 +13,7 @@ BEGIN {
 or skip_all("XS::APItest not available");
 }
-
+leak(2,!!$Config{mad}, sub {
#
# run some code N times. If the number of SVs at the end of loop N is
# greater than (N-1)*delta at the end of loop 1, we've got a leak
@@ -176,3 +176,23 @@ leak(2, 0, sub {
 each %$h;
 undef $h;
 }, 'tied hash iteration does not leak');
+
+package hhtie { 
+    sub TIEHASH { bless [] }
+    sub STORE { $_[0][0]{$_[1]} = $_[2] }
+    sub FETCH { die if $explosive; $_[0][0]{$_[1]} }
+    sub FIRSTKEY { keys %$_[0][0]; each %$_[0][0] }
+    sub NEXTKEY { each %$_[0][0] }
+}
+leak(2,!!$Config{mad}, sub {

+ eval q`
+ BEGIN {
+ $hhtie::explosive = 0;
+ tie %^H, hhtie;
+ $^H{foo} = bar;
+ $hhtie::explosive = 1;
+ }
+ { 1; }
+ `;
+ 'hint-hash copying does not leak');
--
1.8.1.4
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The End
---
abstract: 'Build and install Perl modules'
author:
  - 'Ken Williams <kwilliams@cpan.org>'
  - "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-build@perl.org>.'
build_requires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Module-Build
resources:
  MailingList: mailto:module-build@perl.org
  license: http://dev.perl.org/licenses/
  repository: http://github.com/dagolden/module-build/
  version: 3
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

use strict;
use lib 't/lib';
use MBTest;
use DistGen;

plan 'no_plan';

# Ensure any Module::Build modules are loaded from correct directory
blib_load('Module::Build');

#---------------------------------------------------------------#
# Create test distribution
#---------------------------------------------------------------#
{
  my $dist = DistGen->new(
    name => 'Simple::Name',
    version => '0.01',
    license => 'perl'
  );

  $dist->regen;
  $dist->chdir_in;

  my $mb = $dist->new_from_context();
isa_ok( $mb, "Module::Build" );

is( $mb->license, 'perl',
  "license 'perl' is valid"
);

my $meta = $mb->get_metadata( fatal => 0 );

is( $meta->{license} => 'perl', "META license will be 'perl'" );

is( $meta->{resources}{license}, "http://dev.perl.org/licenses/",
  "META license URL is correct"
);

{
  my $dist = DistGen->new(
    name => 'Simple::Name',
    version => '0.01',
    license => 'VaporWare'
  );

  $dist->regen;
  $dist->chdir_in;

  my $mb = $dist->new_from_context();
  isa_ok( $mb, "Module::Build" );
  is( $mb->license, 'VaporWare',
      "license 'VaporWare' is valid"
  );

  my $meta = $mb->get_metadata( fatal => 0 );

  is( $meta->{license} => 'unrestricted', "META license will be 'unrestricted'" );
  is( $meta->{resources}{license}, "http://example.com/vaporware/",
      "META license URL is correct"
  );
}

# Test with alpha number
# vim:ts=2:sw=2:et:sta:sts=2

1.1169 perl-Pod-Escapes 1.04-293.el7
1.169.1 Available under license:  

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Version 1, February 1989

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<one line to give the program's name and a brief idea of what it does.>
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Also add information on how to contact you by electronic and paper mail.

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Gnomovision version 69, Copyright (C) 19xx name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

That's all there is to it!

1.1170 perl-Pod-HTML 1.22.02-404.el7

1.1170.1 Available under license:

Date: Sun, 15 Mar 2015 21:22:10 -0600
Subject: Re: Pod::Html license
From: Tom Christiansen <tchrist53147@gmail.com>
To: Petr abata <contyk@redhat.com>
Cc: Tom Christiansen <tchrist@perl.com>, marcgreen@cpan.org, jplesnik@redhat.com
MIME-Version: 1.0
Content-Transfer-Encoding: 8bit
Content-Type: text/plain; charset=utf-8

Yes, it was supposed to be licensed just like the rest of Perl.

Sent from my Sprint phone

Petr abata <contyk@redhat.com> wrote:

> Marc, Tom,
> >
> >I'm reviewing licensing of our perl package in Fedora and
> >noticed Pod::HTML and its pod2html script are licensed under
> >the Artistic license (only).
> >
> >This is an issue for us as this license isn't considered free by
> >FSF [0]. Unless the license of this core component changes, we
> >will have to drop it from the tarball and remove support for it
> >from all the modules we ship that use it, such as Module::Build
> >or Module::Install.
> >
> >What I've seen in the past is authors originally claiming their
> >module was released under Artistic while what they actually meant
was the common ‘the same as perl itself’, i.e. ‘GPL+/Aristic’ [1].

an FSF free license. Is it possible this is also the case

of Pod::Html?

> Thanks,
> Petr
>
>(also CC'ing Jitka, the primary package maintainer in Fedora)
>
>[0] https://www.gnu.org/licenses/license-list.html#ArtisticLicense
>
>[1] https://www.gnu.org/licenses/license-list.html#PerlLicense

---

**1.1171 perl-Pod-Html 1.22.02-405.el7**

**1.1171.1 Available under license:**

Date: Sun, 15 Mar 2015 21:22:10 -0600

Subject: Re: Pod::Html license

From: Tom Christiansen <tchrist53147@gmail.com>

To: Petr abata <contyk@redhat.com>

Cc: Tom Christiansen <tchrist@perl.com>, marcgreen@cpan.org, jple

[MIME-Version: 1.0]

[Content-Transfer-Encoding: 8bit]

[Content-Type: text/plain; charset=utf-8]

Yes, it was supposed to be licensed just like the rest of Perl.

Sent from my Sprint phone

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> 
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> 
> This is an issue for us as this license isn't considered free by
> FSF [0]. Unless the license of this core component changes, we
> will have to drop it from the tarball and remove support for it
> from all the modules we ship that use it, such as Module::Build
> or Module::Install.
> 
> What I've seen in the past is authors originally claiming their
> module was released under Artistic while what they actually meant
> was the common 'the same as perl itself', i.e. 'GPL+/Aristic' [1],
> an FSF free license. Is it possible this is also the case
>of Pod::Html?
>
>Thanks,
>Petr
>
>(also CC'ing Jitka, the primary package maintainer in Fedora)
>
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>[1] https://www.gnu.org/licenses/license-list.html#PerlLicense

1.1172 perl-Pod-Parser 1.63-396.el7

1.1173 perl-Pod-Perldoc 3.20 :4.el7
1.1173.1 Available under license :
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1.1174 perl-Pod-Perldoc 3.28 :396.el7

1.1175 perl-Pod-Simple 3.28 :4.el7
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1.1176 perl-Pod-Usage 1.63 :3.el7
1.1176.1 Available under license :
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1.1177 perl-Pod-Usage 1.69-395.el7

1.1178 perl-podlators 2.5.1 :3.el7
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 t/lib/Test/RRA.pm t/lib/Test/RRA/Config.pm t/lib/Test/RRA/ModuleVersion.pm
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1.1180 perl-Scalar-List-Utils 1.27 :248.el7

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1.1181 perl-Scalar-List-Utils 1.49-2.el7

1.1182 perl-self-loader 1.23-404

1.1183 perl-SelfLoader 1.23-405

1.1184 perl-Socket 2.010 :3.el7

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1.1200 perl-Text-Glob 0.11-4.el7

1.1201 perl-Text-ParseWords 3.30-395

1.1202 perl-Text-ParseWords 3.29 :4.el7

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Return-Path: rt-cpan-org-return@perl.org
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yes

--
Alexandr Ciornii, http://chorny.net

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1.1214 Perl-Time-Piece 1.31-404.el7

1.1215 perl-Time-Piece 1.31-405

1.1216 perl-Unicode-collate 1.25-2.el7

1.1217 perl-URI 1.72 :2.el7

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1.1221 perl516-perl 3.1-3

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1.1225 phantomjs 2.0 :3

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Glenn Randers-Pehrson
glenrp at users.sourceforge.net
March 29, 2012
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THE BASIC LIBRARY FUNCTIONS

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1.1232 pixman 0.34.0 :1.el7

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1.1239 plymouth-plugin-script 0.8.9-0.31.20140113.el7

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1.1255 PostgreSQL 9.4.17-1

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diff -c -r bsd_indent/Makefile pg_bsd_indent/Makefile
*** bsd_indent/Makefile Wed Oct 26 17:13:34 2011
--- pg_bsd_indent/Makefile Wed Oct 12 12:17:12 2011
**************
*** 2,10 ****
# Makefile
#
#
! TARGET = indent
XFLAGS = -Wall -D__RCSID="static char *rcsid=" -D__COPYRIGHT="static char *copyright="
! CFLAGS = -g
LIBS =

$(TARGET) : args.o indent.o io.o lexi.o parse.o pr_comment.o
--- 2,10 ----
# Makefile
#
#
! TARGET = pg_bsd_indent
XFLAGS = -Wall -D__RCSID="static char *rcsid=" -D__COPYRIGHT="static char *copyright="
! CFLAGS = -O
LIBS =

$(TARGET) : args.o indent.o io.o lexi.o parse.o pr_comment.o
**************
*** 31,37 ****
  clean:
  rm -f *.o $(TARGET) log core

! install:
! make clean
! make CFLAGS=-O
  install -s -o bin -g bin $(TARGET) /usr/local/bin
--- 31,35 ----
  clean:
  rm -f *.o $(TARGET) log core

! install: $(TARGET)
  install -s -o bin -g bin $(TARGET) /usr/local/bin
diff -c -r bsd_indent/README pg_bsd_indent/README
*** bsd_indent/README Wed Oct 26 17:13:34 2011
--- pg_bsd_indent/README Wed Apr 19 19:30:24 2005
**************
*** 1,3 ****
--- 1,13 ----
+
+ This patch is from NetBSD current, 2005-11-14. It contains all the
+ patches need for its use in PostgreSQL.
This is the C indenter, it originally came from the University of Illinois via some distribution tape for PDP-11 Unix. It has subsequently been hacked upon by James Gosling @ CMU. It isn't very pretty, and really needs diff -c -r bsd_indent/args.c pg_bsd_indent/args.c

```diff
*** 83,88 ****
--- 83,90 ----
#include <string.h>
#include "indent_globs.h"
```

+ #define INDENT_PG_VERSION"1.1"
+ */

/* profile types */
#define PRO_SPECIAL 1 /* special case */
#define PRO_BOOL 2 /* boolean */

```diff
*** 99,106 ****
--- 101,113 ----
#define STDIN 3 /* use stdin */
#define KEY 4 /* type (keyword) */
```

+ #define KEY_FILE 5 /* only used for args */
+ #define VERSION 6 /* only used for args */
+
+ char *option_source = "?";

+ void add_typedefs_from_file(char *str);
+
/*
 N.B.: because of the way the table here is scanned, options whose names are
 substrings of other options must occur later; that is, with -lp vs -l, -lp

```diff
*** 118,123 ****
--- 125,136 ----
"T", PRO_SPECIAL, 0, KEY, 0
```
{ "V", PRO_SPECIAL, 0, VERSION, 0 },
{ "bacc", PRO_BOOL, false, ON, &blanklines_around_conditional_compilation },

***************
*** 425,430 ****
--- 438,456 ----
break;

+ case KEY_FILE:
+ if (*param_start == 0)
+ goto need_param;
+ add_typedefs_from_file(param_start);
+ break;
+
+ case VERSION:
+ {  
+ printf("pg_bsd_indent %s\n", INDENT_PG_VERSION);
+ exit(0);
+ }  
+ break;
+
default:
fprintf(stderr, "indent: set_option: internal error: p_special %d\n", p->p_special);
***************
*** 459,461 ****
--- 485,508 ----
exit(1);
}
}
+
+ void
+ add_typedefs_from_file(char *str)
+ {  
+ FILE *file;
+ char line[BUFSIZ];
+
+ if ((file = fopen(param_start, "r")) == NULL)
+ {  
+ fprintf(stderr, "indent: cannot open file %s\n", str);
+ exit(1);
+ }
+ while ((fgets(line, BUFSIZ, file)) != NULL)
+ {
+  /* Remove trailing whitespace */
+  *(line + strcspn(line, " 	
")) = '0';
+  addkey(strdup(line), 4);
+ }
+ fclose(file);
+ }

Only in pg_bsd_indent: args.o
Only in pg_bsd_indent: indent.bsd.patch
Only in pg_bsd_indent: indent.o
diff -c -r bsd_indent/indent_globs.h pg_bsd_indent/indent_globs.h
*** bsd_indent/indent_globs.h Wed Oct 26 17:13:34 2011
--- pg_bsd_indent/indent_globs.h Mon Nov 14 19:30:24 2005
***************
*** 239,245 ****
     scomf,/* Same line comment font */
     bodyf;/* major body font */

! #define STACK_SIZE 150

EXTERN struct parser_state {
    int  last_token;
--- 239,249 ----
     scomf,/* Same line comment font */
     bodyf;/* major body font */

! */
! * This controls the maximum number of 'else if' clauses supported.
! * If it is exceeded, comments are placed in column 100.
! */
! #define STACK_SIZE 1000

EXTERN struct parser_state {
    int  last_token;
Only in pg_bsd_indent: io.o
diff -c -r bsd_indent/lexi.c pg_bsd_indent/lexi.c
*** bsd_indent/lexi.c Wed Oct 26 17:13:34 2011
--- pg_bsd_indent/lexi.c Mon Nov 14 19:30:24 2005
***************
*** 93,99 ****
    int  rwcode;
};

! struct templ specials[1000] =
    {
    {"switch", 1},
    {"case", 2},


int     rwcode;
};

! struct templ specials[16384] =
{
    "switch", 1,
    "case", 2,

}*end of switch*

--- 93,99 ----
int     rwcode;
};

! struct templ specials[16384] =
{
    "switch", 1,
    "case", 2,

}*end of switch*

if (ps.tos >= STACK_SIZE) {
    fprintf(stderr, "indent: stack size overflow\n");
    exit(1);
}

if (p >= specials + sizeof specials / sizeof specials[0])
    return;/* For now, table overflows are silently
* ignored */

p->rwd = key;
p->rwcode = val;
p[1].rwd = 0;

--- 622,632 ----
else
p++;
if (p >= specials + sizeof specials / sizeof specials[0])
    return;/* For now, table overflows are silently
* ignored */

p->rwd = key;
p->rwcode = val;
p[1].rwd = 0;

Only in pg_bsd_indent: lexi.o
diff -c -r bsd_indent/parse.c pg_bsd_indent/parse.c
*** bsd_indent/parse.c Wed Oct 26 17:13:34 2011
--- pg_bsd_indent/parse.c Mon Nov 14 19:30:24 2005
***************
*** 231,236 ****
--- 231,241 ----

}/* end of switch */

+ if (ps.tos >= STACK_SIZE) {
+     fprintf(stderr, "indent: stack size overflow\n");
+     exit(1);
+ }
+ reduce();/* see if any reduction can be done */

#ifdef debug
diff -c -r bsd_indent/pr_comment.c pg_bsd_indent/pr_comment.c

*** bsd_indent/pr_comment.c Wed Oct 26 17:13:34 2011
--- pg_bsd_indent/pr_comment.c Mon Nov 14 19:30:24 2005
***************
*** 148,154 ****
ps.box_com = true;
ps.com_col = 1;
} else {
! if (*buf_ptr == '-' || *buf_ptr == '*' || *buf_ptr == '
') {
ps.box_com = true; /* a comment with a '-', '*',
* or newline immediately
* after the start comment is
--- 148,158 ----
ps.box_com = true;
ps.com_col = 1;
} else {
! /*
! * Don't process 'n' or every comment is treated as a
! * block comment, meaning there is no wrapping.
! */
! if (*buf_ptr == '-' || *buf_ptr == '*') {
ps.box_com = true; /* a comment with a '-', '*'
* or newline immediately
* after the start comment is
***************
*** 328,333 ****
--- 332,350 ----
goto end_of_comment;
}
} while (*buf_ptr == ' ' || *buf_ptr == '	');
+
+ /*
+ * If there is a blank comment line, we need to prefix
+ * the line with the same three spaces that "/* " takes up.
+ * Without this code, blank stared lines in comments have
+ * three too-many characters on the line when wrapped.
+ */
+ if (s_com == e_com) {
+   *e_com++ = ' ';
+   *e_com++ = ' ';
+ now_col += 3;
+ }
} else
if (++buf_ptr >= buf_end)
fill_buffer();
Only in pg_bsd_indent: pr_comment.o
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>Home</A

</TD

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<th>Up</th>
<th>libpq.html</th>
<th>Next</th>
</tr>
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<tbody>
<tr>
<td>Prev</td>
<td>Up</td>
<td>libpq.html</td>
<td>Next</td>
</tr>
</tbody>
</table>

Chapter 31. `libpq` - C Library
Notice and warning messages generated by the server are not returned by the query execution functions, since they do not imply failure of the query. Instead they are passed to a notice handling function, and execution continues normally after the handler returns. The default notice handling function prints the message on:

```<TT CLASS="FILENAME">stderr</TT>
```

but the application can override this behavior by supplying its own handling function.

For historical reasons, there are two levels of notice handling, called the notice receiver and notice processor. The default behavior is for the notice receiver to format the notice and pass a string to the notice processor for printing. However, an application that chooses to provide its own notice receiver will typically ignore the notice processor layer and just do all the work in the notice receiver.

The function `PQsetNoticeReceiver` sets or examines the current notice receiver for a connection object. Similarly, `PQsetNoticeProcessor` sets or
Each of these functions returns the previous notice receiver or processor function pointer, and sets the new value. If you supply a null function pointer, no action is taken, but the current pointer is returned.

When a notice or warning message is received from the server, or generated internally by `libpq`, the notice receiver function is called. It is passed the message in the form of a `PGRES_NONFATAL_ERROR` `PGresult`. (This allows the receiver to extract individual fields using `PQresultErrorField`, or the complete preformatted message using `PQresultErrorMessage`.) The same void pointer passed to
>PQsetNoticeReceiver</CODE
> is also
  passed. (This pointer can be used to access application-specific state
  if needed.)
</P
>

> The default notice receiver simply extracts the message (using
  <CODE
CLASS="FUNCTION"
>PQresultErrorMessage</CODE
>) and passes it to the notice
  processor.
</P
>

> The notice processor is responsible for handling a notice or warning
  message given in text form. It is passed the string text of the message
  (including a trailing newline), plus a void pointer that is the same
  one passed to <CODE
CLASS="FUNCTION"
>PQsetNoticeProcessor</CODE
>.

> (This pointer
  can be used to access application-specific state if needed.)
</P
>

> The default notice processor is simply:

```c
static void
defaultNoticeProcessor(void *arg, const char *message)
{
    fprintf(stderr, "%s", message);
}
```

> Once you have set a notice receiver or processor, you should expect
  that that function could be called as long as either the

<TT
CLASS="STRUCTNAME"
>PGconn</TT
> or

<TT
CLASS="STRUCTNAME"
>PGresult</TT
> objects made
  from it exist. At creation of a <TT
CLASS="STRUCTNAME"
>PGresult</TT
>
The current notice handling pointers are copied into the `PGresult` for possible use by functions like `PQgetvalue`.

```c
PGconn
PGresult
```
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1.1256 postgresql-libs 9.4.17-1.el7.centos

1.1257 ppp 2.4.5 :33.el7

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That's all there is to it!

1.1263 protobuf 2.5.0 :8.el7
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# This file contains a list of people who've made non-trivial
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# who commit code to the project are encouraged to add their names
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* Small patch improving performance of in Python serialization.

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* Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.

* Clean up some Java warnings.

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* Added CodedInputStream.getTotalBytesRead().

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* Fixed m4/acx_pthread.m4 problem for some Linux distributions.

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1.1264 protobuf 3.2.0-0
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* Added CodedInputStream.getTotalBytesRead().

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* Fixed m4/acx_pthread.m4 problem for some Linux distributions.

William Orr <will@worrbase.com>
* Fixed detection of sched_yield on Solaris.
* Added atomicops for Solaris

Andrew Paprocki <andrew@ishiboo.com>
* Fixed minor IBM xIC compiler build issues
* Added atomicops for AIX (POWER)

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Oleg Smolsky <oleg.smolsky@gmail.com>
  * MS Visual Studio error format option.
  * Detect unordered_map in stl_hash.m4.
* gzip/zlib I/O support.

* Fixed warnings about generated constructors not explicitly initializing all fields (only present with certain compiler settings).

* Added generation of field number constants.

* Fixed initialization ordering problem in logging code.

* Small patch improving performance of in Python serialization.

* Emcs mode for Protocol Buffers (editors/prootobuf-mode.el).

* Added Swap(), SwapElements(), and RemoveLast() to Reflection interface.

* Detect whether zlib is new enough in configure script.

* Fixes for Solaris 10 32/64-bit confusion.

* Optimize Java serialization code when writing a small message to a stream.

* Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.

* Clean up some Java warnings.

* Fix bug with permanent callbacks that delete themselves when run.

* Added CodedInputStream.getTotalBytesRead().

* Fixed m4/acx_pthread.m4 problem for some Linux distributions.

* Fixed detection of sched_yield on Solaris.

* Added atomicops for Solaris

* Fixed minor IBM xIC compiler build issues

* Added atomicops for AIX (POWER)

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1.1266 protobuf-3.2.0 3.2.0

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1.1274 protobuf-lite-static protobuf-lite-static-3.2.0-0

1.1275 psmisc 22.20 :9.el7

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1.1276 psmisc 22.20 :15.el7

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1.1285 pygobject3 3.14.0 :3.el7
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Version 2.1, February 1999

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1.1288 pylons 1.0.1
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.. _security_policy_for_bugs:

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Security policy for bugs
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Receiving Security Updates
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The Pylons team have set up a mailing list at wsgi-security-announce@googlegroups.com to which any security vulnerabilities that affect Pylons will be announced. Anyone wishing to be notified of vulnerabilities in Pylons should subscribe to this list. Security announcements will only be made once a solution to the problem has been discovered.

Reporting Security Issues
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Please report security issues by email to both the lead developers of Pylons at the following addresses:

ben\[at\]groovie.org

security\[at\]3aims.com

Please DO NOT announce the vulnerability to any mailing lists or on the ticket system because we would not want any malicious person to be aware of the problem before a solution is available.

In the event of a confirmed vulnerability in Pylons itself, we will take the following actions:

* Acknowledge to the reporter that we've received the report and that a fix is forthcoming. We'll give a rough timeline and ask the reporter to keep the issue confidential until we announce it.
* Halt all other development as long as is needed to develop a fix, including patches against the current release.
* Publicly announce the vulnerability and the fix as soon as it is available to the WSGI security list at wsgi-security-announce@googlegroups.com.

This will probably mean a new release of Pylons, but in some cases it may simply be the release of documentation explaining how to avoid the vulnerability.

In the event of a confirmed vulnerability in one of the components that Pylons uses, we will take the following actions:

* Acknowledge to the reporter that we’ve received the report and ask the reporter to keep the issue confidential until we announce it.
* Contact the developer or maintainer of the package containing the vulnerability.
* If the developer or maintainer fails to release a new version in a reasonable time-scale and the vulnerability is serious we will either create documentation explaining how to avoid the problem or as a last resort, create a patched version.
* Publicly announce the vulnerability and the fix as soon as it is available to the WSGI security list at wsgi-security-announce@googlegroups.com.

Minimising Risk
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* Only use official production versions of Pylons released publicly on the `Python Package Index <http://python.org/pypi>`_.
* Only use stable releases of third party software not development, alpha, beta or release candidate code.
* Do not assume that related software is of the same quality as Pylons itself, even if Pylons users frequently make use of it.
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1.1289 pyParsing 1.5.6 :9.el7
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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see https://www.cwi.nl/) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see https://www.cnri.reston.va.us/) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation; see http://www.zope.com/). In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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Mersenne Twister

The :mod:`_random` module includes code based on a download from http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are the verbatim comments from the original code:

A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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Sockets
-------

The :mod:`socket` module uses the functions, :func:`getaddrinfo`, and :func:`getnameinfo`, which are coded in separate source files from the WIDE Project, http://www.wide.ad.jp/. ::

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MD5 message digest algorithm

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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at
http://www.ietf.org/rfc/rfc1321.txt

The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of Appendix A. It does not include
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The original and principal author of md5.h is L. Peter Deutsch <ghost@aladdin.com>. Other authors are noted in the change history that follows (in reverse chronological order):

2002-04-13 lpd Removed support for non-ANSI compilers; removed references to Ghostscript; clarified derivation from RFC 1321; now handles byte order either statically or dynamically.
1999-11-04 lpd Edited comments slightly for automatic TOC extraction.
1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5); added conditionalization for C++ compilation from Martin Purschke <purschke@bnl.gov>.
1999-05-03 lpd Original version.

Asynchronous socket services
-----------------------------

The :mod:`asynchat` and :mod:`asyncore` modules contain the following notice::

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

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-------------------------------

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strtod and dtoa
-------------

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.
In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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Mersenne Twister
----------------

The :mod:`_random` module includes code based on a download from http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are the verbatim comments from the original code:

A C-program for MT19937, with initialization improved 2002/1/26. Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed) or init_by_array(init_key, key_length).

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Sockets
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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
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- Arguments more compliant with Python standard

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--------------------------

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Select kqueue
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--------

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Original location:

https://github.com/majek/csiphash/

Solution inspired by code from:
- Samuel Neves (supercop/crypto_auth/siphash24/little)
- djb (supercop/crypto_auth/siphash24/little2)
- Jean-Philippe Aumasson (https://131002.net/siphash/siphash24.c)

strtod and dtoa
--------

The file :file:`Python/dtoa.c`, which supplies C functions dtoa and strtod for conversion of C doubles to and from strings, is derived from the file of the same name by David M. Gay, currently available from http://www.netlib.org/fp/. The original file, as retrieved on March 16, 2009, contains the following copyright and licensing notice:

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-------
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1.1298 python-argparse 1.2.1 :2.el6

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A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting 
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands 
as a successor of a language called ABC. Guido remains Python's 
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for 
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) 
in Reston, Virginia where he released several versions of the 
software.

In May 2000, Guido and the Python core development team moved to 
BeOpen.com to form the BeOpen PythonLabs team. In October of the same 
year, the PythonLabs team moved to Digital Creations (now Zope 
Corporation, see http://www.zope.com). In 2001, the Python Software 
Foundation (PSF, see http://www.python.org/psf/) was formed, a 
non-profit organization created specifically to own Python-related 
Intellectual Property. Zope Corporation is a sponsoring member of 
the PSF.

All Python releases are Open Source (see http://www.opensource.org for 
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releases have also been GPL-compatible; the table below summarizes 
the various releases.

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History
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1.1304 python-decorator 3.4.0 :3.el7

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1.1306 python-firewall 0.5.3 :5.el7

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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python’s principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri. reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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Python was created in the early 1990s by Guido van Rossum at Stichting
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successor of a language called ABC. Guido remains Python's principal author,
although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National
Research Initiatives (CNRI, see https://www.cnr.reston.va.us/) in Reston,
Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to
form the BeOpen PythonLabs team. In October of the same year, the PythonLabs
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In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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Mersenne Twister
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The :mod:`_random` module includes code based on a download from http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are the verbatim comments from the original code:

A C-program for MT19937, with initialization improved 2002/1/26. Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed) or init_by_array(init_key, key_length).

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Any feedback is very welcome.
http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
email: m-mat @ math.sci.hiroshima-u.ac.jp (remove space)

Sockets
-------

The :mod:`socket` module uses the functions, :func:`getaddrinfo`, and
:func:`getnameinfo`, which are coded in separate source files from the WIDE

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MD5 message digest algorithm

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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at

http://www.ietf.org/rfc/rfc1321.txt

The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of Appendix A. It does not include any code or documentation that is identified in the RFC as being copyrighted.

The original and principal author of md5.h is L. Peter Deutsch <ghost@aladdin.com>. Other authors are noted in the change history that follows (in reverse chronological order):

2002-04-13 lpd Removed support for non-ANSI compilers; removed references to Ghostscript; clarified derivation from RFC 1321; now handles byte order either statically or dynamically.
1999-11-04 lpd Edited comments slightly for automatic TOC extraction.
1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5); added conditionalization for C++ compilation from Martin Purschke <purschke@bnl.gov>.
1999-05-03 lpd Original version.

Asynchronous socket services
-------------------------------

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UUencode and UUdecode functions
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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

XML Remote Procedure Calls
--------------------------

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strtod and dtoa

---------------

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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1.1317 python-linux-procfs 0.4.9 :4.el7

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1.1320 python-lxml_test_script 3.3.5

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1.1323 python-perf 3.10.0 :957.12.1.el7

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```c
{
    return (strcmp(license, "GPL") == 0
            || strcmp(license, "GPL v2") == 0
            || strcmp(license, "GPL and additional rights") == 0
            || strcmp(license, "Dual BSD/GPL") == 0
            || strcmp(license, "Dual MIT/GPL") == 0
            || strcmp(license, "Dual MPL/GPL") == 0);
}
#endif

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/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)*/
/* * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk) *
* * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc. *
* * http://www.hypermall.com/ *
* * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY interrupts us (except possibly for removal/insertion of the cable?) *
* * 10/4/97 - began heavy inline documentation of the code. Corrected typos and spelling mistakes. *
* * 10/5/97 - added code to handle PHY interrupts, disable PHY on loss of link, and correctly re-enable PHY when link is re-established. (put back CFG_PHYIE) *
* * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only. *
* * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997 *
* * Linux driver for the IDT77201 NICStAR PCI ATM controller.* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155; * see init_nicstart() for PHY initialization to change this. This driver expects the Linux ATM stack to support scatter-gather lists (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push. *
* * Implementing minimal-copy of received data: *
* * IDT always receives data into a small buffer, then large buffers as needed. This means that data must always be copied to create the linear buffer needed by most non-ATM protocol stacks (e.g. IP) *
* * Fix is simple: make large buffers large enough to hold entire SDU, and leave <small_buffer_data> bytes empty at the start. Then copy small buffer contents to head of large buffer. *
* Trick is to avoid fragmenting Linux, due to need for a lot of large buffers. This is done by 2 things: *
* * 1) skb->destructor / skb->atm.recycle_buffer combined, allow nicstar_free_rx_skb to be called to recycle large data buffers *
* * 2) skb_clone of received buffers *
* See nicstar_free_rx_skb and linearize_buffer for implementation details. *
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M. Welsh, 6 July 1996

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Thanks go to the following people for patches and contributions:

Michael Hunold <m.hunold@gmx.de>
for the initial saa7146 driver and its recent overhaul

Christian Theiss
for his work on the initial Linux DVB driver

Marcus Metzler <mocm@metzlerbros.de>
Ralph Metzler <rjkm@metzlerbros.de>
for their continuing work on the DVB driver

Michael Holzt <kju@debian.org>
for his contributions to the dvb-net driver

Diego Picciani <d.picciani@novacomp.it>
for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login procedure and CyberLogin is no longer used.)

Martin Schaller <martin@smurf.franken.de>
for patching the cable card decoder driver

Klaus Schmidinger <Klaus.Schmidinger@cadsoft.de>
for various fixes regarding tuning, OSD and CI stuff and his work on VDR

Steve Brown <sbrown@cortland.com>
for his AFC kernel thread

Christoph Martin <martin@uni-mainz.de>
for his LIRC infrared handler

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Ronny Strutz <3des@elitedvb.de>
Wolfram Joost <dbo2@frokaschiwei.de>
...and all the other dbox2 people
for many bugfixes in the generic DVB Core, frontend drivers and their work on the dbox2 port of the DVB driver

Oliver Endriss <o.endriss@gmx.de>
for many bugfixes
Andrew de Quincey <adq_dvb@lidskialf.net>
for the tda1004x frontend driver, and various bugfixes

Peter Schildmann <peter.schildmann@web.de>
for the driver for the Technisat SkyStar2 PCI DVB card

Vadim Catana <skystar@moldova.cc>
Roberto Ragusa <r.ragusa@libero.it>
Augusto Cardoso <augusto@carhil.net>
for all the work for the FlexCopII chipset by B2C2,Inc.

Davor Emard <emard@softhome.net>
for his work on the budget drivers, the demux code,
the module unloading problems, ...

Hans-Frieder Vogt <hfvogt@arcor.de>
for his work on calculating and checking the crc's for the
TechnoTrend/Hauppauge DEC driver firmware

Michael Dreher <michael@5dot1.de>
Andreas 'randy' Weinberger
for the support of the Fujitsu-Siemens Activy budget DVB-S

Kenneth Aafly <ke-aa@frisurf.no>
for adding support for Typhoon DVB-S budget card

Ernst Peinlich <e.peinlich@inode.at>
for tuning/DiSEqC support for the DEC 3000-s

Peter Beutner <p.beutner@gmx.net>
for the IR code for the ttusb-dec driver

Wilson Michaels <wilsonmichaels@earthlink.net>
for the lgdt330x frontend driver, and various bugfixes

Michael Krufkty <smkrukfy@m1k.net>
for maintaining v4l/dvb inter-tree dependencies

Taylor Jacob <rtjacob@earthlink.net>
for the nxt2002 frontend driver

Jean-Francois Thibert <jeanfrancois@sagetv.com>
for the nxt2004 frontend driver

Kirk Lapray <kirk.lapray@gmail.com>
for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
single ntx200x frontend driver.

(If you think you should be in this list, but you are not, drop a line to the DVB mailing list)

1.1324 python-ply 3.4 :11.el7

1.1325 python-prettytable 0.7.2 :3.el7

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1.1326 python-pyasn1 0.1.9-2

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1.1327 python-pycurl 7.19.0 :17.el7

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are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated
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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of

its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.
You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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1.1334 python-requests 2.7.0 :1.el7

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1.1335 python-setuptools 0.6.10 :3.el6

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1.1338 python-six 1.9.0 :2.el7

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1.1339 python-slip 0.4.0 :4.el7

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1.1342 python-sphinx 1.1.3 :2.1
1.1342.1 Available under license :

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1.1343 python-urlgrabber 3.10 :7.el7
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1.1344 python-urlgrabber 3.10 :9.el7

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1.1345 python-urllib3 1.10.2 :5.el7

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# Contributions to the urllib3 project

## Creator & Maintainer

* Andrey Petrov <andrey.petrov@shazow.net>

## Contributors

In chronological order:

* victor.vde <http://code.google.com/u/victor.vde/>
* HTTPS patch (which inspired HTTPSConnectionPool)

* erikcederstrand <http://code.google.com/u/erikcederstrand/>
  * NTLM-authenticated HTTPSConnectionPool
  * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>
  * Client-verified SSL certificates for HTTPSConnectionPool
  * Response gzip and deflate encoding support
  * Better unicode support for filepost using StringIO buffers

* btoconnor <brian@btoconnor.net>
  * Non-multipart encoding for POST requests

* p.dobrogost <http://code.google.com/u/@WBRSRIBZhBFXQB6/>
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* Thomas Weischuh <thomas@t-8ch.de>
  * Support for TLS SNI
  * API unification of ssl_version/cert_reqs
  * SSL fingerprint and alternative hostname verification
  * Bugfixes in testsuite

* Sune Kirkeby <mig@ibofobi.dk>
  * Optional SNI-support for Python 2 via PyOpenSSL.

* Marc Schlaich <marc.schlaich@gmail.com>
* Various bugfixes and test improvements.

* Bryce Boe <bbzbryce@gmail.com>
  * Correct six.moves conflict
  * Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@ravellosystems.com>
  * Allowed to skip SSL hostname verification

* Cory Benfield <http://lukasa.co.uk/about/>
  * Stream method for Response objects.
  * Return native strings in header values.
  * Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
  * Add missing WrappedSocket.fileno method in PyOpenSSL

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
  * Fixed a race condition

* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
  * Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
  * Added abstraction for granular control of request fields

* Martin von Gagern <Martin.vGagern@gmx.net>
  * Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
  * Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
  * HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn1313@gmail.com>
  * Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <http://dbrgn.ch/>
  * Disabled TLS compression by default on Python 3.2+
  * Disabled TLS compression in pyopenssl contrib module
  * Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
  * Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
  * Use the platform-specific CA certificate locations
* Josh Schneier <https://github.com/jschneier>
* HTTPHeaderDict and associated tests and docs
* Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>  
  * Added Timeout examples in docs

* Arthur Grunseid <http://grunseid.com>  
  * source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graffatcolmingov@gmail.com>  
  * PEP8 Compliance and Linting
  * Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>  
  * Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>  
  * Google App Engine documentation

* Aaron Meurer <asmeurer@gmail.com>  
  * Added Url.url, which unparses a Url

* Evgeny Kapun <abacabadabacaba@gmail.com>  
  * Bugfixes

* Benjamen Meyer <bm_witness@yahoo.com>  
  * Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>  
  * Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>  
  * Updates to the default SSL configuration

* [Your name or handle] <[email or website]>  
  * [Brief summary of your changes]

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1.1346 python2-crypto 2.6.1 :15.el7

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From dlitz@dlitz.net Sat Apr 18 09:14:20 2009
Date: Sat, 18 Apr 2009 09:14:20 -0400
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: Mark Moraes <moraes@computer.org>
Subject: PyCrypto license clarification
Message-ID: <20090418131419.GA14494@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 2635

Hi Mark,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

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For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in _Intellectual Property and Open Source: A Practical Guide to Protecting Code_ by Van Lindberg. I have already contacted A. M. Kuchling, Robey Pointer, Wim Lewis, Jeethu Rao, and Barry Warsaw, and they have all approved the following dedication for their contributions.

I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

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Regards,
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--
Dwayne C. Litzenberger <dlitz@dlitz.net>
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Received: from web32405.mail.mud.yahoo.com (web32405.mail.mud.yahoo.com [68.142.207.198])
    by goedel.dlitz.net (Postfix) with SMTP id B5EAF401EE
for <dlitz@dlitz.net>; Mon, 20 Apr 2009 17:25:36 -0600 (CST)
Received: (qmail 34697 invoked by uid 60001); 20 Apr 2009 23:25:33 -0000
DKIM-Signature: v=1; a=rsa-sh256; c=relaxed/relaxed; d=yahoo.com; s=1024;
th=b:OvxqbYnCg7R6tUN3YmlgFURM3CuHh1JehlyXhDzkaThU=; h=Message-ID:X-YMail-OSG:Received:X-Mailer:Date:From:Reply-To:Subject:To:MIME-Version:Content-Type;
b=F2h2bFzpQxyKFZ8BhenniyupGw4Zvlek9B8k91qKU+51W/TksGBij5YzihkJQdKQk0qLz5f4g8dT6bOME3sEYi1j0hlx0K0uUD0yoYTINBCmdMQRoJ7ph9bmt+p/EjhRpe+Fv6aoLV0FONWiHfGDghjPT1duJWXfTVggB2au=
DomainKey-Signature:a=rsa-sha1; c=nofws;
s=1024; d=yahoo.com;
h=Message-ID:X-YMail-OSG:Received:X-Mailer:Date:From:Reply-To:Subject:To:MIME-Version:Content-Type;
b=6RShFF5VzQLgL+9tcm1xKuo4Rs4IVvXF6fdOOpQrMyRcxeFoobhuTE35grGqlomOJl.wM0+mZwRb6rGkDj763caOlAo8Eect/qlADW5izXfvmVQAChTbqmpsJBMnQTNqs9iZ+InrG+3UwtUSGfX7fhEWnl9P/Hebxf9Wp4b3j eo=;
Message-ID: <551071.34569.qm@web32405.mail.mud.yahoo.com>
X-YMail-OSG:
FrK8aWMVM1mFjtLpmGUbClJbujQc.i.JkIAKUH5FsFn79PbetewAewXJ2ahZGCoIgCX6oVnG3u.CgqzAffY 4vZSnTiT8wnCkzZNZ_g6k.XUC3ipo_6e.92T3i4p8MxAfAf1ItpNFn5nXPWcQ7aREs7jGoWWVYVyt50cIsUSFS Hz772pa8P1Yow_xSz3fOAgRs5fCrbbFCC8s8HCwurL3YhasbHmkWffeSS.x6gEcBaxf03oz4FeDb5mpJ54g11X ong8h_TmzX9g84Bln9g_3tJ4WSXm6g6.tohLytXcUoz4j036wyWpTKprWZe1UQaN83Sv_bj_Ghxw--
Received: from [69.124.140.74] by web32405.mail.mud.yahoo.com via HTTP; Mon, 20 Apr 2009 16:25:32 PDT
X-Mailer: YahooMailClassic/5.2.15 YahooMailWebService/0.7.289.1
Date: Mon, 20 Apr 2009 16:25:32 -0700 (PDT)
From: M Moraes <markmoraes@yahoo.com>
Reply-To: moraes@computer.org
Subject: Re: PyCrypto license clarification
To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Status: RO
X-Status: A
Content-Length: 3222

Hi Dwayne.

Sure, the new license sounds fine for all my contributions to PyCrypto, and thanks for taking it on. My apologies for not responding to your previous e-mail.

Regards,
Mark.

--- On Sat, 4/18/09, Dwayne C. Litzenberger <dlitz@dlitz.net> wrote:
Hi Mark,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them.

The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify").

==================================================================
Distribute and use freely; there are no restrictions on further dissemination and usage except those imposed by the laws of your country of residence. This software is provided "as is" without warranty of fitness for use or suitability for any purpose, express or implied. Use at your own risk or not at all.

==================================================================

Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

--amk

(www.amk.ca)

For the next PyCrypto release, I would like to take steps
> to move toward a
> clearer licensing regime. I am asking as many
> copyright holders as I can
> find if I can release PyCrypto under something clearer and
> more standard.
> Below, I have quoted a public domain dedication that was
> recommended in
> _Intellectual Property and Open Source: A Practical Guide_
> to Protecting
> Code_, by Van Lindberg. I have already contacted A.
> M. Kuchling, Robey
> Pointer, Wim Lewis, Jeethu Rao, and Barry Warsaw, and they
> have all
> approved the following dedication for their contributions.
> >
> > I understand that you have made contributions to
> > PyCrypto. May I, on your
> > behalf, dedicate to the public domain all your
> > contributions to PyCrypto,
> > with the following notice?
> >
> > ==============================================================
> >       The contents of this file are
dedicated to the public domain. To the
extent that dedication to the public
domain is not available, everyone
is granted a worldwide, perpetual,
royalty-free, non-exclusive license
to exercise all rights associated with
the contents of this file for
any purpose whatsoever. No
rights are reserved.
>
> ==============================================================

> Regards,
> - Dwayne
>
> -- Dwayne C. Litzenberger <dlitz@dlitz.net>
> Key-signing key - 19E1
> 1F68 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From dlitz@dlitz.net Mon Apr 20 20:01:37 2009
Date: Mon, 20 Apr 2009 20:01:37 -0400
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
Thanks a lot, and don't worry about not responding to previous emails. I do that too much myself. :)

On Mon, Apr 20, 2009 at 04:25:32PM -0700, M Moraes wrote:

> Hi Dwayne.
>
> Sure, the new license sounds fine for all my contributions to PyCrypto, and thanks for taking it on. My apologies for not responding to your previous e-mail.
>
> Regards,
>
> Mark.
>
> --- On Sat, 4/18/09, Dwayne C. Litzenberger <dlitz@dlitz.net> wrote:
> 
> > From: Dwayne C. Litzenberger <dlitz@dlitz.net>
> > Subject: PyCrypto license clarification
> > To: "Mark Moraes" <moraes@computer.org>
> > Date: Saturday, April 18, 2009, 9:14 AM
> > Hi Mark,
> >
> > I am the new maintainer of the Python Cryptography Toolkit,
> > and I am working on a new release at http://www.pycrypto.org/.
> >
> > People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure
what to tell them.
The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify").

Distribute and use freely; there are no restrictions on further dissemination and usage except those imposed by the laws of your country of residence. This software is provided "as is" without warranty of fitness for use or suitability for any purpose, express or implied. Use at your own risk or not at all.

Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

--amk
(www.amk.ca)

For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in _Intellectual Property and Open Source: A Practical Guide to Protecting Code_, by Van Lindberg. I have already contacted A. M. Kuchling, Robey Pointer, Wim Lewis, Jeethu Rao, and Barry Warsaw, and they have all approved the following dedication for their contributions.
I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

> The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.

> Regards,

- Dwayne

-- Dwayne C. Litzenberger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9 179F 1C11 B877 E780 4B45

Date: Sun, 23 Nov 2008 15:54:35 -0800
From: Wim Lewis <wiml@hhhh.org>
Subject: Re: PyCrypto license clarification
To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
Cc: Wim Lewis <wiml@hhhh.org>
Message-Id: <9D5C3135-7414-47D7-9D41-0AC6C3A84D97@hhhh.org>

-----BEGIN PGP SIGNED MESSAGE-----
Hash: SHA1

On November 23, 2008, you wrote:

Hi Wim,
I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.

Certainly! I think the only code of mine in PyCrypto is the CAST-5 / CAST-128 implementation, which already has a public-domain notice at the top of the file. But I am happy to have that, any any other code of mine that might have wandered in there under an unclear open sourcish license, distributed under the public-domain dedication you quote.

Wim.

-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.6 (Darwin)
iQCVAwUBSSnnAl8UnN8n93LBAQLp/gQAh7x8Av1mstc2kxEJDWThm26PTAZxMz4B
FekthDOzlxge5580MGGeExMVn8aw+1BHi60YD85gsntlDzkcQtb+BR/xAvJ5zKyA
J/Mn/I+16eJQ3jhu8IPHLAduOXm9Rtuas/yR+Doaq0xOPKoBx+/5+t1ILJtBcZ
wrPEa90U9i9s=
=2SY9
-----END PGP SIGNATURE-----
From dlitz@dlitz.net Sun Nov 23 00:17:22 2008
Date: Sun, 23 Nov 2008 00:17:22 -0500
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: "A. M. Kuchling" <amk@amk.ca>
Subject: PyCrypto license clarification
Message-ID: <20081123051722.GA29253@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: multipart/signed; micalg=pgp-sha1;
protocol="application/pgp-signature"; boundary="YiEDa0DAkWCtVeE4"
Content-Disposition: inline
X-Primary-Address: dlitz@dlitz.net
X-Homepage: http://www.dlitz.net/
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;
id=19E11FE8B3CFF273ED174A24928CEC1339C25CF7 (only for key signing);
preference=unprotected
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;

Open Source Used In Application Centric Infrastructure Service Engine (ACI-SE) 1.1
27047
Hi Andrew,

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify").

```
Distribute and use freely; there are no restrictions on further dissemination and usage except those imposed by the laws of your country of residence. This software is provided "as is" without warranty of fitness for use or suitability for any purpose, express or implied. Use at your own risk or not at all.
```

Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

--amk (www.amk.ca)

For the next PyCrypto release, I'd like to take steps to move toward a clearer licensing regime. I'm asking as many copyright holders as I can find, starting with you, if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in _Intellectual Property and Open Source: A Practical Guide to Protecting Code_, by Van Lindberg.
May I, on your behalf, dedicate to the public domain your considerable contributions to PyCrypto, with the following notice:

The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.

Regards,
- Dwayne

---=20
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9 179F 1C11 B877 E780 4B45

--YiEDa0DAkWCtVeE4
Content-Type: application/pgp-signature; name="signature.asc"
Content-Description: Digital signature
Content-Disposition: inline

-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.5 (GNU/Linux)
iEYEARECAAYFAkko52IACgkQHBG4d+eAS0XPPQCfcyQ2DdAXKg9N7Z+jeSFFD5EZ
yloAn33a3ZjkreyJaTbzEqImOEW8JGpf
=aBEW
-----END PGP SIGNATURE-----

--YiEDa0DAkWCtVeE4--
People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

The intention is that it be public domain.

May I, on your behalf, dedicate to the public domain your considerable contributions to PyCrypto, with the following notice?

You may.

--amk
Hi Barry,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

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is granted a worldwide, perpetual, royalty-free, non-exclusive license
to exercise all rights associated with the contents of this file for
any purpose whatsoever. No rights are reserved.
=======================================================================

Regards,
- Dwayne

--

Dwayne C. Litzenberger <dlitz@dlitz.net>
    Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From barry@python.org Mon Mar  2 11:29:39 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <barry@python.org>
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
    by rivest.dlitz.net (Postfix) with ESMTP id 6E01AC6640B
    for <dwon@rivest.dlitz.net>; Mon,  2 Mar 2009 11:29:39 -0500 (EST)
    Received: from localhost (localhost [127.0.0.1])
    by goedel.dlitz.net (Postfix) with QMQP id 0644E1007A
    for <dwon@rivest.dlitz.net>; Mon,  2 Mar 2009 10:29:39 -0600 (CST)
    Received: (vmailmgr-postfix 8668 invoked by uid 1003);  2 Mar 2009 10:29:39 -0600
    Delivered-To: m-dlitz-dlitz@dlitz.net
    Received-SPF: none (python.org: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom;
    envelope-from="barry@python.org"; helo=mail.wooz.org; client-ip=216.15.33.230
    Received: from mail.wooz.org (216-15-33-230.c3-0.slvr-ubr2.lnh-slvr.md.static.cable.rcn.com [216.15.33.230])
    by goedel.dlitz.net (Postfix) with ESMTMP id CCEA110073
    for <dlitz@dlitz.net>; Mon,  2 Mar 2009 10:29:38 -0600 (CST)
    Received: from snowdog.wooz.org (snowdog.wooz.org [192.168.11.202])
    by mail.wooz.org (Postfix) with ESMTPSA id ACE30E3C9F
    for <dlitz@dlitz.net>; Mon,  2 Mar 2009 11:29:35 -0500 (EST)
Message-Id: <09BF1A39-B015-4820-97A3-8642490C8254@python.org>
From: Barry Warsaw <barry@python.org>
To: Dwayne C. Litzenberger <dlitz@dlitz.net>
In-Reply-To: <20090301024509.GA13195@rivest.dlitz.net>
Content-Type: text/plain; charset=US-ASCII; format=flowed; delsp=yes
Content-Transfer-Encoding: quoted-printable
Mime-Version: 1.0 (Apple Message framework v930.3)
Subject: Re: PyCrypto license clarification
Date: Mon, 2 Mar 2009 11:29:34 -0500
References: <20090301024509.GA13195@rivest.dlitz.net>
X-Pgp-Agent: GPGMail d55 (v55, Leopard)
X-Mailer: Apple Mail (2.930.3)
Status: RO
Content-Length: 869
On Feb 28, 2009, at 9:45 PM, Dwayne C. Litzenberger wrote:

> I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

Great! I'm glad to see someone taking up the mantle of this important Python library.

> I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

Absolutely yes.

Cheers,
Barry
working on a new release at http://www.pycrypto.org/.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

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===================================================================

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     --amk (www.amk.ca)

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I understand that you have made contributions to PyCrypto, under nickname "z3p" and/or other names. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

=======================================================================
The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.
=======================================================================

Regards,
- Dwayne

--
From paulswartz@gmail.com Mon Aug  3 12:14:07 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <paulswartz@gmail.com>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
  by rivest.dlitz.net (Postfix) with ESMTP id 30B9D984FC4
for <dwon@rivest.dlitz.net>; Mon,  3 Aug 2009 12:14:07 -0400 (EDT)
Received: from localhost (localhost [127.0.0.1])
  by goedel.dlitz.net (Postfix) with QMOP id AD9AE81068
for <dwon@rivest.dlitz.net>; Mon,  3 Aug 2009 10:14:06 -0600 (CST)
Received: (vmailmgr-postfix 32055 invoked by uid 1003);  3 Aug 2009 10:14:06 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: pass (gmail.com ... _spf.gmail.com: 72.14.220.159 is authorized to use 'paulswartz@gmail.com' in
  'mfrom' identity (mechanism 'ip4:72.14.192.0/18' matched)) receiver=goedel.dlitz.net; identity=mfrom; envelope-
  from="paulswartz@gmail.com"; helo=fg-out-1718.google.com; client-ip=72.14.220.159
Received: from fg-out-1718.google.com (fg-out-1718.google.com [72.14.220.159])
  by goedel.dlitz.net (Postfix) with ESMTP id 4E63881066
for <dlitz@dlitz.net>; Mon,  3 Aug 2009 10:14:05 -0600 (CST)
Received: by fg-out-1718.google.com with SMTP id d23so1076840fga.3
  for <dlitz@dlitz.net>; Mon, 03 Aug 2009 09:14:04 -0700 (PDT)
DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed;
  d=gmail.com; s=gamma;
  h=mime-version:in-reply-to:references:from:date:message-id:subject:to:
  content-type:content-transfer-encoding;
  bh=A0RHBi0TnrhKS5qOHJ3WYbKZ+b0cuPeuoKAvpApWcc=;
  b=gyTqkRhIi4bfKIZCBWsRbnMNVDq1PWJHyC0EvxPskaoHR3HAR96MWQNBePu4/0Ac
  Vn55qIlgTdom4e9z13UEE6MwZo9kqiQw0L/SLibbDiQeNqo/hYqPmuVswitaYwNAyMJ
  Y9++76rFQgZyDalsfsvmww7Q3/bEmjVT0rQE=
DomainKey-Signature: a=rsa-sha1; c=nofws;
  d=gmail.com; s=gamma;
  h=mime-version:in-reply-to:references:from:date:message-id:subject:
  content-type:content-transfer-encoding;
  b=jze7KSMkUGilfVCXKXaAXMi5NAtdMeMQOrVZzfrNYG6yG68xOd2sxejyig3EfT6Nv6
  Q3opUMsI06q6zjZND55w46kTh2uBTNz4d3NwJeEWJnG3xciQRQu/mXPfp8AzI3CefL
  1omJLM1eQ2XyuZ47j3jem+SJtfdHUcSD1UhgI=
MIME-Version: 1.0
Received: by 10.239.157.147 with SMTP id q19mr601802hbc.61.1249316043185; Mon,
  03 Aug 2009 09:03:43 -0700 (PDT)
In-Reply-To: <20090803014825.GA1326@rivest.dlitz.net>
References: <20090803014825.GA1326@rivest.dlitz.net>
From: Paul Swartz <paulswartz@gmail.com>
Date: Mon, 3 Aug 2009 12:13:43 -0400
Message-ID: <324cfb540908030913x71d331f0kb069052f74e5ae6b@mail.gmail.com>
Subject: Re: PyCrypto license clarification
To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: quoted-printable
Status: RO
X-Status: A
Content-Length: 1450

On Sun, Aug 2, 2009 at 9:48 PM, Dwayne C. Litzenberger<dlitz@dlitz.net> wrote:

> Hi Paul,
>
> I am the new maintainer of the Python Cryptography Toolkit, and I am
> working on a new release at http://www.pycrypto.org/.

That's great!

> I understand that you have made contributions to PyCrypto, under nickname
> "z3p" and/or other names. =C2=A0May I, on your behalf, dedicate to the pu=
blic
> domain all your contributions to PyCrypto, with the following notice?
>
> =D1=5C2=A0=D0=3D=D0=3D=D0=3D=D0=3D=D0=3D=D0=3D=D0=3D=D0=3D=D0=3D=D0=3D=D0=3D=D0=3D=D0=3D=D0=3D=3D=D0=
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Yes, that's fine. Good luck with the new release!

-p
--=20
Paul Swartz
paulswartz at gmail dot com
http://paulswartz.net/
AIM: z3penguin
On Mon, Aug 03, 2009 at 12:13:43PM -0400, Paul Swartz wrote:

> On Sun, Aug 2, 2009 at 9:48 PM, Dwayne C. Litzenberger<dlitz@dlitz.net> wrote:
> >> Hi Paul,
> >>
> >> I am the new maintainer of the Python Cryptography Toolkit, and I am
> >> working on a new release at http://www.pycrypto.org/.
> >
> >That's great!
> >
> >> I understand that you have made contributions to PyCrypto, under nickname
> >> "z3p" and/or other names. May I, on your behalf, dedicate to the public
> >> domain all your contributions to PyCrypto, with the following notice?
> >>
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=======================================================================

Regards,
- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From joris@bontje.nl Tue May  5 03:08:32 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <joris@bontje.nl>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
  by rivest.dlitz.net (Postfix) with ESMTP id 7AA4B9E5078
  for <dwon@rivest.dlitz.net>; Tue,  5 May 2009 03:08:32 -0400 (EDT)
Received: from localhost (localhost [127.0.0.1])
  by goedel.dlitz.net (Postfix) with QMQP id 2315B40583
  for <dwon@rivest.dlitz.net>; Tue,  5 May 2009 01:08:32 -0600 (CST)
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  Delivered-To: m-dlitz-dlitz@dlitz.net
  Received-SPF: none (bontje.nl: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom;
  envelope-from="joris@bontje.nl"; helo=smtp6.versatel.nl; client-ip=62.58.50.97
Received: from smtp6.versatel.nl (smtp6.versatel.nl [62.58.50.97])
  by goedel.dlitz.net (Postfix) with ESMTP id 2D76A4052C
  for <dlitz@dlitz.net>; Tue,  5 May 2009 01:08:30 -0600 (CST)
Received: (qmail 4224 invoked by uid 0); 5 May 2009 07:08:25 -0000
Received: from qmail06.zonnet.nl (HELO dell062.admin.zonnet.nl) ([10.170.1.123])
  (envelope-sender <joris@bontje.nl>)
  by 10.170.1.96 (qmail-ldap-1.03) with SMTP
  for < >; 5 May 2009 07:08:25 -0000
Received: by dell062.admin.zonnet.nl (Postfix, from userid 33)
  id 9BE9B15759B; Tue,  5 May 2009 09:08:25 +0200 (CEST)
Hi Dwayne,

Thanks for taking over the PyCrypto library and putting in the required effort to keep this going.

I was very excited to read that it is now one of the installed libraries for Google AppsEngine!

You have my full permission to dedicate all my contributions to PyCrypto to the public domain with your suggested notice:

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--amk (www.amk.ca)

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--
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Excellent! Thank you!

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> > extent that dedication to the public domain is not available,
> > everyone
> > is granted a worldwide, perpetual, royalty-free, non-exclusive
In case I haven't replied to this yet: Yes, this is fine with me.

robey

--------BEGIN PGP SIGNATURE--------
Version: GnuPG v1.4.8 (Darwin)

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SH8AoLJgaq1Ili72YZDc+/Cd8VO0xLbr
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--------END PGP SIGNATURE--------

A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes the various releases.

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<td>2003</td>
<td>PSF</td>
<td>yes</td>
</tr>
</tbody>
</table>

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Copyright and licensing of the Python Cryptography Toolkit ("PyCrypto"):  

Previously, the copyright and/or licensing status of the Python Cryptography Toolkit ("PyCrypto") had been somewhat ambiguous. The original intention of Andrew M. Kuchling and other contributors has been to dedicate PyCrypto to the public domain, but that intention was not necessarily made clear in the original disclaimer (see LEGAL/copy/LICENSE.orig).

Additionally, some files within PyCrypto had specified their own
licenses that differed from the PyCrypto license itself. For example, the original RIPEMD.c module simply had a copyright statement and warranty disclaimer, without clearly specifying any license terms. (An updated version on the author's website came with a license that contained a GPL-incompatible advertising clause.)

To rectify this situation for PyCrypto 2.1, the following steps have been taken:

1. Obtaining explicit permission from the original contributors to dedicate their contributions to the public domain if they have not already done so. (See the "LEGAL/copy/stmts" directory for contributors' statements.)

2. Replacing some modules with clearly-licensed code from other sources (e.g. the DES and DES3 modules were replaced with new ones based on Tom St. Denis's public-domain LibTomCrypt library.)

3. Replacing some modules with code written from scratch (e.g. the RIPEMD and Blowfish modules were re-implemented from their respective algorithm specifications without reference to the old implementations).

4. Removing some modules altogether without replacing them.

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Note that the export or re-export of cryptographic software and/or
source code may be subject to regulation in your jurisdiction.
From dlitz@dlitz.net Wed Aug 27 20:54:38 EDT 2008
X-Maildir-Dup-Checked: Yes
Return-Path: <dlitz@dlitz.net>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
by rivest.dlitz.net (Postfix) with ESMTP id ECFDFC6641D
for <dwon@rivest.dlitz.net>; Wed, 27 Aug 2008 20:45:06 -0400 (EDT)
Received: from localhost (localhost [127.0.0.1])
by goedel.dlitz.net (Postfix) with QMQP id 99A9D100AA
for <dwon@rivest.dlitz.net>; Wed, 27 Aug 2008 18:45:05 -0600 (CST)
Received: (vmailmgr-postfix 3270 invoked by uid 1003); 27 Aug 2008 18:45:05 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: pass (goedel.dlitz.net: domain of dlitz@dlitz.net designates 193.201.42.13 as permitted sender)
Received: from m14.itconsult.co.uk (m14.itconsult.co.uk [193.201.42.13])
by goedel.dlitz.net (Postfix) with ESMTP id 1D3B510088
for <dlitz@dlitz.net>; Wed, 27 Aug 2008 18:45:04 -0600 (CST)
Received: from stampIter.itconsult.co.uk (stampIter.itconsult.co.uk [193.201.42.31])
by m14.stamper.itconsult.co.uk (GMS
15.01.3664/NT8923.00.54dca388) with SMTP id jfxsjqaa for dlitz@dlitz.net;
Thu, 28 Aug 2008 01:45:02 +0100
To: crypt@bis.doc.gov,
    enc@nsa.gov,
    web_site@bis.doc.gov,
    pycrypto@lists.dlitz.net,
    PYTHON-CRYPTO@NIC.SURFNET.NL,
    dlitz@dlitz.net
Received-SPF: Pass (m14.stamper.itconsult.co.uk: domain of dlitz@dlitz.net
designates 64.5.53.201 as permitted sender) identity=mailfrom;
client-ip=64.5.53.201; receiver=m14.stamper.itconsult.co.uk;
hello=goedel.dlitz.net; mechanism=all; envelope-from=dlitz@dlitz.net;
Received: from goedel.dlitz.net (goedel.dlitz.net [64.5.53.201]) by
m14.stamper.itconsult.co.uk (GMS 15.01.3664/NT8923.00.54dca388) with ESMTP id
taxsjqaa for post@stamper.itconsult.co.uk; Thu, 28 Aug 2008 01:42:58 +0100
Received: from rivest.dlitz.net (rivest.dlitz.net [IPv6:2002:4c0a:9133:1104::1])
by goedel.dlitz.net (Postfix) with ESMTP id 667C7100B1
for <post@stamper.itconsult.co.uk>; Wed, 27 Aug 2008 18:42:56 -0600 (CST)
Received: by rivest.dlitz.net (Postfix, from userid 1000)
id B92F8C66420; Wed, 27 Aug 2008 20:42:55 -0400 (EDT)
-----BEGIN PGP SIGNED MESSAGE-----
# This is a proof of posting certificate from
# stamper.itconsult.co.uk certifying that a user
# claiming to be:-
#   dlitz@dlitz.net
# requested that this message be sent to:-
#   crypt@bis.doc.gov
#   enc@nsa.gov
#   web_site@bis.doc.gov
#   pycrypto@lists.dlitz.net
#   PYTHON-CRYPTO@NIC.SURFNET.NL
#   dlitz@dlitz.net
#
# This certificate was issued at 00:45 (GMT)
# on Thursday 28 August 2008 with reference 0520978
#
# CAUTION: while the message may well be from the sender
# indicated in the "From:" header, the sender
# has NOT been authenticated by this service
#
########################################################

-----BEGIN PGP SIGNED MESSAGE-----
SUBMISSION TYPE: TSU
SUBMITTED BY: Dwayne C. Litzenberger
SUBMITTED FOR: Dwayne C. Litzenberger
POINT OF CONTACT: Dwayne C. Litzenberger
PHONE and/or FAX: +1-613-693-1296
MANUFACTURER: n/a
PRODUCT NAME/MODEL #: The Python Cryptography Toolkit ("PyCrypto")
ECCN: 5D002

NOTIFICATION: http://www.pycrypto.org/

Note: I am a Canadian citizen posting software to my website located in Canada. I am not certain whether PyCrypto contains enough US-origin cryptography to be covered by U.S. export controls, but I am submitting this anyway.

(Sorry for spamming the lists, but I want there to be a record of this.)

- --
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key   - 19E1 1FE8 B3CF F273 ED17  4A24 928C EC13 39C2 5CF7
Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9  179F 1C11 B877 E780 4B45

-----BEGIN PGP SIGNATURE-----
Version: 2.6.3i
Charset: noconv
Comment: Stamper Reference Id: 0520978
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d+q0E7eE8TvnvijUcTAR9o27yvzOPxdFT864MQA7OTSbPK39aGAgA4fgAgvYH9t
UNJj/kv8QLz/aq2fi/HNjyrwnqFnUl0uqwpOrQGbz8Y+SGrPvl9gKqy1Ju45L+doq
sxbzCOpjugRv2zDdnR/2SnFmDWQxv8dSeonwIHpQDft8/LVA/gHiTDmteQI0hJQ6o
XYhY+HbRjsD741/GSp0911N5ln0UgshF0LIndhNSAvWf4aPyh5KCNo+BC0v/W/pqSISpkwmbhlIPHoOltTKnC0qKLAHtXqMGiNh08AkryZ0yJksb0HsA==
=3oIX
-----END PGP SIGNATURE-----

PyCrypto Code Submission Requirements - Rev. C

Last updated: 2009-02-28

In an effort to further clarify PyCrypto's licensing terms, anyone submitting code to PyCrypto must be able to certify the following (taken from the Linux
Developer's Certificate of Origin 1.1

By making a contribution to this project, I certify that:

(a) The contribution was created in whole or in part by me and I have the right to submit it under the open source license indicated in the file; or

(b) The contribution is based upon previous work that, to the best of my knowledge, is covered under an appropriate open source license and I have the right under that license to submit that work with modifications, whether created in whole or in part by me, under the same open source license (unless I am permitted to submit under a different license), as indicated in the file; or

(c) The contribution was provided directly to me by some other person who certified (a), (b) or (c) and I have not modified it.

(d) I understand and agree that this project and the contribution are public and that a record of the contribution (including all personal information I submit with it, including my sign-off) is maintained indefinitely and may be redistributed consistent with this project or the open source license(s) involved.

In addition, the code's author must not be a national, citizen, or resident of the United States of America.

In addition, the code must not be of U.S. origin.

In addition, all new code contributed to PyCrypto must be dedicated to the public domain as follows:

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=== EOF ===

00INDEX                 - This file
tsu-notify.mbox         - Notification sent per U.S. export regulations
copy/                   - Copyright info & public-domain dedications
From dlitz@dlitz.net Sat Feb 28 23:24:14 2009
Date: Sat, 28 Feb 2009 23:24:14 -0500
Hi Jeethu,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify").

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===================================================================

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--amk (www.amk.ca)

For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in _Intellectual Property and Open Source: A Practical Guide to Protecting Code_, by Van Lindberg. I have already contacted A. M. Kuchling, Robey Pointer, and Wim Lewis, and they have all approved the following text for their contributions.

I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?
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Regards,
- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
    Key-signing key   - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
Hi Dwayne,

My contribution to pycrypto are very very minimal (The sha256 module, IIRC). I'd be fine with the public domain license for PyCrypto.

Jeethu Rao

PS: Apologies for the delay in my response.
I don't really check this email address all that often, please direct any further correspondence to jeethu@jeethurao.com

On Sun, Mar 1, 2009 at 9:54 AM, Dwayne C. Litzenberger <dlitz@dlitz.net> wrote:

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> 
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Regards,
- Dwayne

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Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

--
Jeethu Rao

--000e0cd209d0e5a3d40464a23054
Content-Type: text/html; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable
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Regards,
-Dwayne

--
Dwayne C. Litzenberger <<a href="mailto:dlitz@dlitz.net" target="_blank">dlitz@dlitz.net</a>>

=A0=A0=A0Key-signing key =A0 - 19E1 1FE8 B3CF F273 ED17 =A0A04A24 928C EC1=3439C2 5CF7

--000e0cd209d0e5a3d40464a23054--
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A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python’s
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

<table>
<thead>
<tr>
<th>Release</th>
<th>Derived from</th>
<th>Year</th>
<th>Owner</th>
<th>GPL-compatible? (1)</th>
</tr>
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<tr>
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<td>2001</td>
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<td>yes</td>
</tr>
<tr>
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<td>2001</td>
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<tr>
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<td>2.1.1</td>
<td>2002</td>
<td>PSF</td>
<td>yes</td>
</tr>
<tr>
<td>2.1.3</td>
<td>2.1.2</td>
<td>2002</td>
<td>PSF</td>
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</tr>
<tr>
<td>2.2 and above</td>
<td>2.1.1</td>
<td>2001-now</td>
<td>PSF</td>
<td>yes</td>
</tr>
</tbody>
</table>

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under the GPL. All Python licenses, unlike the GPL, let you distribute a modified version without making your changes open source. The GPL-compatible licenses make it possible to combine Python with other software that is released under the GPL; the others don't.

(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.
Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

B. TERMS AND CONDITIONS FOR ACCESSING OR OTHERWISE USING PYTHON

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```bash
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1.1348 python3 3.5.3-1
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--------------------------------------------------------------

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope.
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All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a
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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2)
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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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1.1354 PyYAML 3.10 :11.el7.centos

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1.1358 ql2500-firmware 5.06.05 :1.el6.

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1.1359 qrencode 3.4.1 :3.el7

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    librdmacm/examples/rdma_xserver.c
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1.1369 readline-devel 6.2 :10.el7

1.1370 redhat-rpm-config 9.1.0 :87.el7

1.1371 redhat-rpm-config 9.1.0 :68.el7.centos
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1.1374 rest 0.8.1 :2.el7

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A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work
which has been distributed under these terms. A "work based on the
Library" means either the Library or any derivative work under
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portion of it, either verbatim or with modifications and/or translated
straightforwardly into another language. (Hereinafter, translation is
included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for
making modifications to it. For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control
compilation and installation of the library.

Activities other than copying, distribution and modification are not
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above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.
b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)
Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
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You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least
three years, to give the same user the materials specified in
Subsection 6a, above, for a charge no more than the cost of
performing this distribution.

d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.
For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
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a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
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will operate properly with a modified version of the library, if
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1.1376 rh-perl526-perl-Algorithm-Diff 1.1903-9.el7

1.1377 rh-perl526-perl-Archive-Zip 1.59-7.el7
1.1378 rh-perl526-perl-Carp 1.42-395.el7

1.1379 rh-perl526-perl-Compress-Raw-Zlib 2.076-2.el7

1.1380 rh-perl526-perl-Devel-PPPort 3.36-5.el7

1.1381 rh-perl526-perl-Digest-MD5 2.55-396.el7

1.1382 rh-perl526-perl-Digest-SHA 6.00-2.el7

1.1383 rh-perl526-perl-Encode-Locale 1.05-9.el7

1.1384 rh-perl526-perl-Env 1.04-395

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1.1385 rh-perl526-perl-ExtUtils-CBuilder

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1.1386 rh-perl526-perl-ExtUtils-ParseXS 3.35-2.el7
1.1387 rh-perl526-perl-File-Path 2.15-2.el7

1.1388 rh-perl526-perl-File-Temp 0.230.400-396.el7

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1.1390 rh-perl526-perl-inc-latest 0.500-9.el7

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1.1391 rh-perl526-perl-IO-Zlib 1.10-404.el7

1.1392 rh-perl526-perl-IPC-Cmd 0.98-6.el7

1.1393 rh-perl526-perl-IPC-SysV 2.07-397.el7
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1.1399 rh-perl526-perl-Pod-Escapes 1.07-395.el7

1.1400 rh-perl526-perl-Pod-Simple 3.35-395.el7

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1.1405 rh-perl526-perl-Test 1.30-404.el7

1.1406 rh-perl526-perl-Text-Template 1.47-5.el7

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1.1415 rpm 4.11.3-35.el7

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For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.
Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.1416 rpm-build 4.11.3-35.el7

1.1417 rpm-build-libs 4.11.3 :35.el7
1.1417.1 Available under license :

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1.1418 rpm-devel 4.11.3-35.el7

1.1419 rsync 3.0.9 :17.el7
1.1419.1 Available under license:

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1.1424 rsyslog-mmjsonparse 8.1901.0-1.el7

1.1425 rust 1.22.1-1.el7

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# ignore-license

set timeout 1800
set cmd [lindex $argv 0]
set licenses [lindex $argv 1]

spawn {*}$cmd
expect {
    "Do you accept the license ":y+/*+
        exp_send "y\r"
    exp_continue
} else {eof}

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<td>llvm/lib/Support/{reg*, COPYRIGHT.regex}</td>
</tr>
<tr>
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public class SearchGuardLicense {
    private String uid;
    private String type;
    private String issueDate;
    private String expiryDate;
    private String issuedTo;
    private String issuer;
    private String startDate;
    private Integer majorVersion;
    private String clusterName;
    private Integer allowedNodeCount;
    private List<String> msgs;
    private Integer expiresInDays;
    private boolean isExpired;
    private boolean valid;
    private String action;
    private String prodUsage;
    private ClusterService clusterService;
    private List<String> getMsgs();
    private Integer getExpiresInDays();
    private boolean isExpired();
    private boolean isValid();
    private String getAction();

    public SearchGuardLicense(String uid, String type, String issueDate, String expiryDate, String issuedTo, String issuer, String startDate, Integer majorVersion, String clusterName, Integer allowedNodeCount, List<String> msgs, Integer expiresInDays, boolean isExpired, boolean valid, String action, String prodUsage, ClusterService clusterService) {
        this.uid = uid;
        this.type = type;
        this.issueDate = issueDate;
        this.expiryDate = expiryDate;
        this.issuedTo = issuedTo;
        this.issuer = issuer;
        this.startDate = startDate;
        this.majorVersion = majorVersion;
        this.clusterName = clusterName;
        this.allowedNodeCount = allowedNodeCount;
        this.msgs = msgs;
        this.expiresInDays = expiresInDays;
        this.isExpired = isExpired;
        this.valid = valid;
        this.action = action;
        this.prodUsage = prodUsage;
        this.clusterService = clusterService;
    }

    public static SearchGuardLicense fromString(String input) {
        // Parse the input string to create a new SearchGuardLicense object
        SearchGuardLicense license = new SearchGuardLicense(
                // Extract the values from the input string
        );
        return license;
    }

    // Other methods...
}

The SearchGuardLicense class represents a license with various fields such as issue date, expiration date, issuer, and allowed node count. It provides methods to get and set these fields as well as to check if the license is valid or expired.
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1.1433 search-guard-ssl 5.6.2-23

1.1434 sed 4.2.2 :5.el7

1.1434.1 Available under license :

==========
Test 1.1:101
==========
Testing argument parsing
First type
e1_l1_1
e1_l1_1
e1_l1_2
e1_l1_2
Test 1.2:102

Test 1.3:103
Test 1.4:104

Second type

Test 1.4.1:105
Test 1.5:106
Test 1.6:107

s1_l1_1
s1_l1_1
s1_l1_2
s1_l1_2
s1_l1_3
s1_l1_3
s1_l1_4
s1_l1_4
s1_l1_5
s1_l1_5
s1_l1_6
s1_l1_6
s1_l1_7
s1_l1_7
s1_l1_8
s1_l1_8
s1_l1_9
s1_l1_9
s1_l1_10
s1_l1_10
s1_l1_11
s1_l1_11
s1_l1_11
s1_l1_11
s1_l1_12
s1_l1_12
s1_l1_13
s1_l1_13
s1_l1_14
s1_l1_14

Test 1.7:108

e1_l1_1
e1_l1_1
e1_l1_2
e1_l1_2
e1_l1_3
e1_l1_3
e1_l1_4
e1_l1_4
e1_l1_5
e1_l1_5
e1_l1_6
e1_l1_6
e1_l1_7
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Test 1.8:109

==============
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Test 1.9:110

---------
sl_l1_1
sl_l1_2
sl_l1_3
sl_l1_4
sl_l1_5
sl_l1_6
sl_l1_7
sl_l1_8
sl_l1_9
sl_l1_10
sl_l1_11
sl_l1_12
sl_l1_13
sl_l1_14

---------
Test 1.10:111

---------
sl_l1_1
sl_l1_2
sl_l1_3
sl_l1_4
sl_l1_5
sl_l1_6
sl_l1_7
sl_l1_8
sl_l1_9
sl_l1_10
sl_l1_11
sl_l1_12
sl_l1_13
sl_l1_14

---------
Test 1.11:112

---------
e1_l1_1
e1_l1_2
e1_l1_3
e1_l1_4
e1_l1_5
e1_l1_6
e1_l1_7
e1_l1_8
e1_l1_9
e1_l1_10
e1_l1_11
e1_l1_12
e1_l1_13
e1_l1_14

--------------
Test 1.12:113
--------------
e1_l1_1
e1_l1_2
e1_l1_3
e1_l1_4
e1_l1_5
e1_l1_6
e1_l1_7
e1_l1_8
e1_l1_9
e1_l1_10
e1_l1_11
e1_l1_12
e1_l1_13
e1_l1_14

--------------
Test 1.13:114
--------------
e1_l1_1
e2_e1_l1_1
e2_e1_l1_1
e1_l1_2
e2_e1_l1_2
e2_e1_l1_2
e1_l1_3
e2_e1_l1_3
e2_e1_l1_3
e1_l1_4
e2_e1_l1_4
e2_e1_l1_4
e1_l1_5
e2_e1_l1_5
e2_e1_l1_5
e1_l1_6
e2_e1_l1_6
e2_e1_l1_6
e1_l1_7
e2_e1_l1_7
e2_e1_l1_7
e1.l1.8
e2.e1.l1.8
e2.e1.l1.8
e1.l1.9
e2.e1.l1.9
e2.e1.l1.9
e1.l1.10
e2.e1.l1.10
e2.e1.l1.10
e1.l1.11
e2.e1.l1.11
e2.e1.l1.11
e1.l1.12
e2.e1.l1.12
e2.e1.l1.12
e1.l1.13
e2.e1.l1.13
e2.e1.l1.13
e1.l1.14
e2.e1.l1.14
e2.e1.l1.14

==============
Test 1.14:115
==============
s1.l1.1
s2.s1.l1.1
s2.s1.l1.1
s1.l1.2
s2.s1.l1.2
s2.s1.l1.2
s1.l1.3
s2.s1.l1.3
s2.s1.l1.3
s1.l1.4
s2.s1.l1.4
s2.s1.l1.4
s1.l1.5
s2.s1.l1.5
s2.s1.l1.5
s1.l1.6
s2.s1.l1.6
s2.s1.l1.6
s1.l1.7
s2.s1.l1.7
s2.s1.l1.7
s1.l1.8
s2.s1.l1.8
Test 1.17:118

-------------
Testing address ranges
Test 2.4:123

Test 2.5:124

Test 2.6:125

Test 2.7:126

Test 2.9:127

Test 2.10:128

Test 2.11:129

Test 2.12:130

Test 2.13:131
Test 2.15:133

-------------
11_4
11_5
11_6
11_7
11_8
11_9
11_10
11_11
11_12
11_13
11_14
12_1
12_2
12_3
12_4
12_5
12_6
12_7
12_8
12_9

-------------
Test 2.16:134

-------------
11_4
11_5
11_6
11_7
11_8
11_9
11_10
11_11
11_12
11_13
11_14
12_1
12_2
12_3
12_4
12_5
12_6

-------------
Test 2.17:135

-------------
11_4
Test 2.18:136

Test 2.19:137

Test 2.20:138

Brace and other grouping

Test 3.1:139
Test 3.2:140

Test 3.3:141

Test 3.4:142
Testing `a c d` and `i` commands

============= Test 4.1:143 =============

before il1_1
after_i before il1_1
before il1_2
after_i before il1_2
before il1_3
after_i before il1_3
before il1_4
after_i before il1_4
before il1_5
after_i before il1_5
before il1_6
after_i before il1_6
before il1_7
after_i before il1_7
before il1_8
after_i before il1_8
before il1_9
after_i before il1_9
before il1_10
after_i before il1_10
before il1_11
after_i before il1_11
before il1_12
after_i before il1_12
before il1_13
after_i before il1_13
before il1_14
after_i before il1_14
before il2_1
after_ibefore_il2_1
before_il2_2
after_ibefore_il2_2
before_il2_3
after_ibefore_il2_3
before_il2_4
after_ibefore_il2_4
before_il2_5
after_ibefore_il2_5
before_il2_6
inserted
after_ibefore_il2_6
before_il2_7
after_ibefore_il2_7
before_il2_8
after_ibefore_il2_8
before_il2_9
after_ibbefore_il2_9

============
Test 4.2:144
============

before_al1_1
after_abefore_al1_1
before_al1_2
after_abefore_al1_2
before_al1_3
after_abefore_al1_3
before_al1_4
after_abefore_al1_4
before_a5-1211_5
after_abefore_a5-1211_5
appended
before_a5-1211_6
after_abefore_a5-1211_6
appended
before_a5-1211_7
after_abefore_a5-1211_7
appended
before_a5-1211_8
after_abefore_a5-1211_8
appended
before_a5-1211_9
after_abefore_a5-1211_9
appended
before_a5-1211_10
after_abefore_a5-1211_10
appended
before_a5-12l1_11
after_abefore_a5-12l1_11
 appended
before_a5-12l1_12
after_abefore_a5-12l1_12
 appended
before_al1_13
after_abefore_al1_13
 before_al1_14
after_abefore_al1_14
 before_al2_1
after_abbefore_al2_1
 before_al2_2
after_abbefore_al2_2
 before_al2_3
after_abbefore_al2_3
 before_al2_4
after_abbefore_al2_4
 before_al2_5
after_abbefore_al2_5
 before_al2_6
after_abbefore_al2_6
 before_al2_7
after_abbefore_al2_7
 before_al2_8
after_abbefore_al2_8
 before_al2_9
after_abbefore_al2_9

============
Test 4.3:145
============
^l1_1
^l1_1$
 appended
^l1_2
^l1_2$
 appended
^l1_3
^l1_3$
 appended
^l1_4
^l1_4$
 appended
^l1_5
^l1_5$
 appended
^l1_6
Test 4.4:146

hello
hello
hello
hello
hello
hello
hello
hello
hello
hello
hello
hello
hello
hello

=============  
Test 4.5:147
=============  
hello

=============  
Test 4.6:148
=============  
hello

=============  
Test 4.7:149
=============  
hello

=============  
Test 4.8:150
=============  
Testing labels and branching

=============  
Test 5.1:151
=============  
label2_l1_1
label3_label2_l1_1
label1_l1_2
label1_l1_3
label1_l1_4
label1_l1_5
label1_l1_6
label1_l1_7
label1_l1_8
label1_l1_9
label1_l1_10
label1_l1_11
label1_l1_12
label2_l1_13
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Test 5.2:152
--------------
tested l2_1
tested l2_2
tested l2_3
tested l2_4
tested l2_5
tested l2_6
tested l2_7
tested l2_8
tested l2_9
tested l2_10
tested l2_11
tested l2_12
tested l2_13
tested l2_14

Test 5.3:153
--------------
^l1_1$
^l1_2$
^l1_3$
^l1_4$
^l1_5$
^l1_6$
^l1_7$
^l1_8$

Test 5.4:154
--------------
^l1_1$
^l1_2$
^l1_3$
^l1_4$
^l1_5$
^l1_6$
^l1_7$
^l1_8$
Test 5.5:155

Test 5.6:156

Test 5.7:157

Test 5.8:158
m1_10
m1_11
m1_12
m1_13
m1_14

Pattern space commands

==========
Test 6.1:159
==========
changed
changed
changed
changed
changed
changed
changed
changed
changed
changed
changed

==========
Test 6.2:160
==========
11_1
11_2
11_3
11_5
11_6
11_7
11_8
11_9
11_10
11_11
11_12
11_13
11_14

==========
Test 6.3:161
==========
11_5
11_6
11_7
Test 6.4:162
===============

Test 6.5:163
==============
Testing print and file routines

Test 7.2:166

$
Testing substitution commands
Test 8.3:174

Test 8.4:175

Test 8.5:176
Test 8.6:177

Test 8.7:178

Test 8.8:179

x_x1xl1
Test 8.10:181

Test 8.11:182

s wfile results
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    =============

    Python was created in the early 1990s by Guido van Rossum at Stichting
    Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python’s principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (see http://www.digicool.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Digital Creations is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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That's all there is to it!

1.1442 shadow-utils 4.6-1

1.1443 shared-mime-info 1.1 :9.el7

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Gocheck - A rich testing framework for Go

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1.1458 sprintf for JavaScript 0.7-beta1

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Summary: Header files and libraries for developing apps which will use sqlite
Group: Development/C
Requires: %{name} = %{version}-%{release}

%description -n %{name}-devel
The sqlite-devel package contains the header files and libraries needed
to develop programs that use the sqlite database library.

%prep
%setup -q -n %{name}

%build
CFLAGS="-%optflags -DNDEBUG=1" CXXFLAGS="-%optflags -DNDEBUG=1" ./configure --prefix=%{_prefix}
make
make doc

%install
install -d $RPM_BUILD_ROOT/%{_prefix}
install -d $RPM_BUILD_ROOT/%{_prefix}/bin
install -d $RPM_BUILD_ROOT/%{_prefix}/include
install -d $RPM_BUILD_ROOT/%{_prefix}/lib
make install prefix=$RPM_BUILD_ROOT/%{_prefix}

%clean
rm -fr $RPM_BUILD_ROOT

%files
%defattr(-, root, root)
%{_libdir}/*.so*
%{_bindir}/*
%{_files} -n %{name}-devel
%defattr(-, root, root)
%{_libdir}/pkgconfig/sqlite.pc
%{_libdir}/*.a
%{_libdir}/*.la
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#
# check if a file has the proper license in it
#
# USAGE: check-license.py [-C] file1 file2 ... fileN
#
# A 'file' may in fact be a directory, in which case it is recursively
# searched.
#
# If the license cannot be found, then the filename is printed to stdout.
# Typical usage:
#  $ check-license.py . > bad-files
#
# -C switch is used to change licenses.
# Typical usage:
#  $ check-license.py -C file1 file2 ... fileN
#

import sys, os, re

# Note: Right now, OLD_LICENSE and NEW_LICENSE are the same, because
# r878444 updated all the license blocks. In the future, if we update
# the license block again, change just NEW_LICENSE and use this script.

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SH_OLD_LICENSE = re.subn(r'(\?m)\^ \\^\^', '#', OLD_LICENSE)[0]

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re_OLD = re.compile(OLD_LICENSE)
re_SH_OLD = re.compile(SH_OLD_LICENSE)
re_EXCLUDE = re.compile(
    r'automatically generated by SWIG'
    + r'|Generated from configure.in'
    + r'|placed into the public domain'
)

c_comment_suffices = ('.c', '.java', '.h', '.cpp', '.hw', '.pas')

# Yes, this is an empty tuple. No types that fit in this category uniformly
# have a copyright block.
# Possible types to add here:
# ('.bat', '.py', '.pl', '.in')
sh_comment_suffices = ()

def check_file(fname, old_re, new_lic):
    s = open(fname).read()
    if (not old_re.search(s)
        and not re_EXCLUDE.search(s)):
        print(fname)

def change_license(fname, old_re, new_lic):
    s = open(fname).read()
    m = old_re.search(s)
    if not m:
        print('ERROR: missing old license: %s' % fname)
    else:
        s = s[:m.start()] + new_lic + s[m.end():]
        open(fname, 'w').write(s)
        print('Changed: %s' % fname)

def visit(baton, dirname, dircontents):
    file_func = baton
    for i in dircontents:
        # Don't recurse into certain directories
        if i in ('.svn', '.libs'):
            dircontents.remove(i)
            continue

        extension = os.path.splitext(i)[1]
        fullname = os.path.join(dirname, i)

        if os.path.isdir(fullname):
            continue

        if extension in c_comment_suffices:
            file_func(fullname, re_OLD, NEW_LICENSE)
        elif extension in sh_comment_suffices:
            file_func(fullname, re_SH_OLD, SH_NEW_LICENSE)

def main():
    file_func = check_file
    if sys.argv[1] == '-C':
        print('Changing license text...')
        del sys.argv[1]
    file_func = change_license

    for f in sys.argv[1:]:
        if os.path.isdir(f):
            baton = file_func
            for dirpath, dirs, files in os.walk(f):
                for f in files:
visit(baton, dirpath, dirs + files)
else:
    baton = file_func
dir, i = os.path.split(f)
visit(baton, dir, i)

if __name__ == '__main__':
    main()

1.1475 subversion-libs 1.7.14 :14.el7

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Jean-loup Gailly    Mark Adler
jloup@gzip.org      madler@alumni.caltech.edu

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Nikitser, Peter A.
Nussel, Ludwig
Ouellet, Jean-Philippe
Paquet, Eric
Paradis, Chantal
Percival, Ted
Perera, Andres
Peron, Christian S.J.
Peschel, Aaron
Peslyak, Alexander
Peterson, Toby
Petten, Diego Elio
Pickett, Joel
Plotnick, Alex
de Raadt, Theo
Rasch, Gudleik
Reid, Steve
Richards, Matt
Rossum, Guido van
Rouillard, John P.
Rowe, William A., Jr.
Roy, Alain
Ruusame, Elan
Ryabinkin, Evgen
Sato, Yuichi
Sanchez, Wilfredo
Saucier, Jean-Francois
Schoenfeld, Patrick
Schuring, Arno
Schwarze, Ingo
Scott, Dougal
Sieger, Nick
Simon, Thor Lancelot
Slemko, Marc
Smith, Andy
Sobrado, Igor
Soulen, Steven
Spangler, Aaron
Spradling, Cloyce D.
Stier, Matthew
Stoeckmann, Tobias
Street, Russell
Stritzky, Tilo
Stroucken, Michael
Tarrall, Robert
Thomas, Matthew
Todd, Giles
Toft, Martin
Torek, Chris
Tucker, Darren
Uhl, Robert
Uzel, Petr
Valery, Reznic
Van Dinter, Theo
Venckus, Martynas
de Vries, Maarten
Wagner, Klaus
Walsh, Dan
Warburton, John
Webb, Kirk
Wetzel, Timm
Wieringen, Marco van
Wilk, Jakub
Winiger, Gary
Wood, David
Zacarias, Gustavo
Zolnowsky, John

The following people have worked to translate sudo into other languages:

Blittermann, Mario
Bogusz, Jakub
Buo-ren, Lin
Casagrande, Milo
Castro, Felipe
Cho, Seong-ho
Chornoivan, Yuri
Diguez, Francisco
Fontenelle, Rafael
Garca-Fontes, Walter
Gezer, Volkan
Hamasaki, Takeshi
Hamming, Peter
Hansen, Joe
Hantrais, Frdric
Hein, Jochen
Hufthammer, Karl Ove
Jerovek, Damir
The following list of people, sorted by last name, have contributed code or patches to this implementation of sudo since I began maintaining it in 1993. This list is known to be incomplete—if you believe you should be listed, please send a note to sudo@sudo.ws.

Matt Ackeret
Mark Adler
Russ Allbery
Nick Andrew
Dimitry Andric
Danny Barron
Tom Bates
Zdenek Behan
Ray Bellis
Elias Benali
Eric Paquet
Chantal Paradis
Ted Percival
Christian S.J. Peron
Alexander Peslyak
Toby Peterson
Diego Elio Pettino
Joel Pickett
Alex Plotnick
Tran Ngoc Quan
Gudleik Rasch
Matt Richards
Guido van Rossum
John P. Rouillard
William A. Rowe Jr.
Alain Roy
Elan Ruusamae
Eygene Ryabinkin
Yuichi SATO
Wilfredo Sanchez
Jean-Francois Saucier
Patrick Schoenfeld
Arno Schuring
Dougal Scott
Abel Sendn
Nick Sieger
Thor Lancelot Simon
Marc Slemko
Andy Smith
Igor Sobrado
Aaron Spangler
Cloyce D. Spradling
Matthew Stier
Tobias Stoeckmann
Russell Street
Tilo Stritzky
Michael Stroucken
Yasuaki Taniguchi
Robert Tarrall
Matthew Thomas
Giles Todd
Martin Toft
Chris Torek
Darren Tucker
Robert Uhl
Mikel Olasagasti Uranga
Petr Uzel
Reznic Valery
Martynas Venckus
Klaus Wagner
Dan Walsh
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John Warburton
Kirk Webb
Timm Wetzel
Marco van Wieringen
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Jean-loup Gailly        Mark Adler
jloup@gzip.org          madler@alumni.caltech.edu

1.1478 sudo 1.7.4p5 :13.el6_3

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:5.el6

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The of the start-stop-daemon

* A rewrite of the original Debian's start-stop-daemon Perl script
* in C (faster - it is executed many times during system startup).
* Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,
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The of the start-stop-daemon

* A rewrite of the original Debian's start-stop-daemon Perl script
* in C (faster - it is executed many times during system startup).
* Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>, public domain.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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/

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# START tmux completion
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# Usage: Put "source bash_completion_tmux.sh" into your .bashrc

_tmux()
{
    local cur prev opts
    COMPREPLY=()
    cur="${COMP_WORDS[COMP_CWORD]}"
    prev="${COMP_WORDS[COMP_CWORD-1]}"

    opts="\n    attach-session \n    bind-key \n    break-pane \n    capture-pane \n    choose-client \n    choose-session \n    choose-window \n    clear-history \n"
clock-mode \ 
clock-mode \ 
command-prompt \ 
confirm-before \ 
copy-buffer \ 
copy-mode \ 
delete-buffer \ 
detach-client \ 
display-message \ 
display-panes \ 
down-pane \ 
find-window \ 
has-session \ 
if-shell \ 
join-pane \ 
kill-pane \ 
kill-server \ 
kill-session \ 
kill-window \ 
last-window \ 
link-window \ 
list-buffers \ 
list-clients \ 
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lock-session \ 
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new-window \ 
next-layout \ 
next-window \ 
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resize-pane \ 
respawn-window \ 
rotate-window \ 
run-shell \ 
save-buffer \ 

select-layout \ 
select-pane \ 
select-prompt \ 
select-window \ 
send-keys \ 
send-prefix \ 
server-info \ 
set-buffer \ 
set-environment \ 
set-option \ 
set-window-option \ 
show-buffer \ 
show-environment \ 
show-messages \ 
show-options \ 
show-window-options \ 
source-file \ 
split-window \ 
start-server \ 
suspend-client \ 
swap-pane \ 
swap-window \ 
switch-client \ 
unbind-key \ 
unlink-window \ 
up-pane”

COMPREPLY=($(compgen -W "${opts}" -- ${cur}))
return 0

}
complete -F _tmux tmux

# END tmux completion
/* $Id: osdep-freebsd.c 2647 2011-12-09 16:37:29Z nicm $ */

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#include <sys/param.h>
#include <sys/proc.h>
#include <sys/stat.h>
#include <sys/sysctl.h>
#include <sys/user.h>

#include <err.h>
#include <errno.h>
#include <event.h>
#include <stdint.h>
#include <stdlib.h>
#include <string.h>
#include <unistd.h>
#include <libutil.h>

struct kinfo_proc	*cmp_procs(struct kinfo_proc *, struct kinfo_proc *);
char			*osdep_get_name(int, char *);
char			*osdep_get_cwd(pid_t);
struct event_base	*osdep_event_init(void);

#ifndef nitems
#define nitems(_a) (sizeof((_a)) / sizeof((_a)[0]))
#endif

#define is_runnable(p)  
((p)->ki_stat == SRUN || (p)->ki_stat == SIDL)
#define is_stopped(p)   
((p)->ki_stat == SSTOP || (p)->ki_stat == SZOMB)

struct kinfo_proc *
cmp_procs(struct kinfo_proc *p1, struct kinfo_proc *p2)
{
    if (is_runnable(p1) && !is_runnable(p2))
        return (p1);
    if (!is_runnable(p1) && is_runnable(p2))
        return (p2);

    if (is_stopped(p1) && !is_stopped(p2))
        return (p1);
    if (!is_stopped(p1) && is_stopped(p2))
        return (p2);

    if (p1->ki_estcpu > p2->ki_estcpu)
        return (p1);
    return (p2);
}
if (p1->ki_estcpu < p2->ki_estcpu)
    return (p2);

if (p1->ki_slptime < p2->ki_slptime)
    return (p1);
if (p1->ki_slptime > p2->ki_slptime)
    return (p2);

if (strcmp(p1->ki_comm, p2->ki_comm) < 0)
    return (p1);
if (strcmp(p1->ki_comm, p2->ki_comm) > 0)
    return (p2);

if (p1->ki_pid > p2->ki_pid)
    return (p1);
return (p2);
}

char *
osdep_get_name(int fd, char *tty)
{
    int mib[4] = { CTL_KERN, KERN_PROC, KERN_PROC_PGRP, 0 };
    struct stat sb;
    size_t len;
    struct kinfo_proc *buf, *newbuf, *bestp;
    u_int i;
    char*name;

    buf = NULL;

    if (stat(tty, &sb) == -1)
        return (NULL);
    if ((mib[3] = tcgetpgrp(fd)) == -1)
        return (NULL);

    retry:
    if (sysctl(mib, nitems(mib), NULL, &len, NULL, 0) == -1)
        return (NULL);
    len = (len * 5) / 4;

    if ((newbuf = realloc(buf, len)) == NULL)
        goto error;
    buf = newbuf;

    if (sysctl(mib, nitems(mib), buf, &len, NULL, 0) == -1) {
        if (errno == ENOMEM)
            goto retry;
        goto error;
    }

    return (buf);
}

...
bestp = NULL;
for (i = 0; i < len / sizeof (struct kinfo_proc); i++) {
    if (buf[i].ki_tdev != sb.st_rdev)
        continue;
    if (bestp == NULL)
        bestp = &buf[i];
    else
        bestp = cmp_procs(&buf[i], bestp);
}

name = NULL;
if (bestp != NULL)
    name = strdup(bestp->ki_comm);

free(buf);
return (name);

error:
free(buf);
return (NULL);
}

char *
osi__get_cwd(pid_t pid)
{
    static char		 wd[PATH_MAX];
    struct kinfo_file	*info = NULL;
    int nrecords, i;

    if ((info = kinfo_getfile(pid, &nrecords)) == NULL)
        return (NULL);
    for (i = 0; i < nrecords; i++) {
        if (info[i].kf_fd == KF_FD_TYPE_CWD) {
            strlcpy(wd, info[i].kf_path, sizeof wd);
            free(info);
            return (wd);
        }
    }
    free(info);
    return (NULL);
}

struct event_base *
osi__event_init(void)
* On some versions of FreeBSD, kqueue doesn't work properly on tty
* file descriptors. This is fixed in recent FreeBSD versions.
*/

setenv("EVENT_NOKQUEUE", "1", 1);
return (event_init());
}

/* $Id: osdep-netbsd.c 2647 2011-12-09 16:37:29Z nicm $ */

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 */

#include <sys/param.h>
#include <sys/proc.h>
#include <sys/stat.h>
#include <sys/sysctl.h>
#include <errno.h>
#include <event.h>
#include <stdlib.h>
#include <string.h>
#include <unistd.h>

#define is_runnable(p) 
  (((p)->p_stat == LSRUN || (p)->p_stat == SIDL)
#define is_stopped(p) 
  (((p)->p_stat == SSTOP || (p)->p_stat == SZOMB)

struct kinfo_proc2 *cmp_procs(struct kinfo_proc2 *, struct kinfo_proc2 *);
char* osdep_get_name(int, char *);
char* osdep_get_cwd(pid_t);
struct event_base *osdep_event_init(void);

struct kinfo_proc2 *
cmp_procs(struct kinfo_proc2 *p1, struct kinfo_proc2 *p2)  
{  
if (is_runnable(p1) && !is_runnable(p2))  
    return (p1);  
if (!is_runnable(p1) && is_runnable(p2))  
    return (p2);  
if (is_stopped(p1) && !is_stopped(p2))  
    return (p1);  
if (!is_stopped(p1) && is_stopped(p2))  
    return (p2);  
if (p1->p_estcpu > p2->p_estcpu)  
    return (p1);  
if (p1->p_estcpu < p2->p_estcpu)  
    return (p2);  
if (p1->p_slptime < p2->p_slptime)  
    return (p1);  
if (p1->p_slptime > p2->p_slptime)  
    return (p2);  
if (p1->pPid > p2->pPid)  
    return (p1);  
return (p2);  
}  

char *
osdep_get_name(int fd, __unused char *tty)  
{  
int mib[6];  
struct stat sb;  
size_t len, i;  
struct kinfo_proc2 *buf, *newbuf, *bestp;  
char*name;  

if (stat(tty, &sb) == -1)  
    return (NULL);  
if ((mib[3] = tcgetpgrp(fd)) == -1)  
    return (NULL);  

buf = NULL;  
len = sizeof(bestp);  
mib[0] = CTL_KERN;  
mib[1] = KERN_PROC2;  
mib[2] = KERN_PROC_PGRP;  
mib[4] = sizeof (*buf);  
mib[5] = 0;
retry:
if (sysctl(mib, __arraycount(mib), NULL, &len, NULL, 0) == -1)
return (NULL);

if ((newbuf = realloc(buf, len * sizeof (*buf))) == NULL)
goto error;
buf = newbuf;

mib[5] = len / sizeof(*buf);
if (sysctl(mib, __arraycount(mib), buf, &len, NULL, 0) == -1) {
if (errno == ENOMEM)
goto retry; /* possible infinite loop? */
goto error;
}

bestp = NULL;
for (i = 0; i < len / sizeof (*buf); i++) {
if (buf[i].p_tdev != sb.st_rdev)
continue;
if (bestp == NULL)
bestp = &buf[i];
else
bestp = cmp_procs(&buf[i], bestp);
}

name = NULL;
if (bestp != NULL)
name = strdup(bestp->p_comm);
free(buf);
return (name);

error:
free(buf);
return (NULL);
}

char *
osdep_get_cwd(pid_t pid)
{
return (NULL);
}

struct event_base *
osdep_event_init(void)
{
return (event_init());
/* $Id: osdep-openbsd.c 2647 2011-12-09 16:37:29Z nicm $ */

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#include <sys/param.h>
#include <sys/sysctl.h>
#include <sys/stat.h>
#include <errno.h>
#include <event.h>
#include <stdlib.h>
#include <string.h>
#include <unistd.h>

#else
#define nitems(_a) (sizeof(_a) / sizeof(_a)[0])
#endif

#define is_runnable(p) 
  ((p)->p_stat == SRUN || (p)->p_stat == SIDL || (p)->p_stat == SONPROC)
#define is_stopped(p) 
  ((p)->p_stat == SSTOP || (p)->p_stat == SZOMB || (p)->p_stat == SDEAD)

struct kinfo_proc* cmp_procs(struct kinfo_proc *, struct kinfo_proc *);
char* osdep_get_name(int, char *);
char* osdep_get_cwd(pid_t);
struct event_base* osdep_event_init(void);

struct kinfo_proc *
cmp_procs(struct kinfo_proc *p1, struct kinfo_proc *p2)
{
  if (is_runnable(p1) && !is_runnable(p2))
    return (p1);
if (!is_runnable(p1) && is_runnable(p2))
return (p2);

if (is_stopped(p1) && !is_stopped(p2))
return (p1);
if (!is_stopped(p1) && is_stopped(p2))
return (p2);

if (p1->p_estcpu > p2->p_estcpu)
return (p1);
if (p1->p_estcpu < p2->p_estcpu)
return (p2);

if (p1->p_slptime < p2->p_slptime)
return (p1);
if (p1->p_slptime > p2->p_slptime)
return (p2);

if ((p1->p_flag & P_SINTR) && !(p2->p_flag & P_SINTR))
return (p1);
if (!(p1->p_flag & P_SINTR) && (p2->p_flag & P_SINTR))
return (p2);

if (strcmp(p1->p_comm, p2->p_comm) < 0)
return (p1);
if (strcmp(p1->p_comm, p2->p_comm) > 0)
return (p2);

if (p1->p_pid > p2->p_pid)
return (p1);
return (p2);

char *
osdep_get_name(int fd, char *tty)
{
int mib[6] = { CTL_KERN, KERN_PROC, KERN_PROC_PGRP, 0,
        sizeof(struct kinfo_proc), 0 };
struct stat sb;
size_t len;
struct kinfo_proc *buf, *newbuf, *bestp;
u_int i;
char*name;

buf = NULL;

if (stat(tty, &sb) == -1)
return (NULL);
if ((mib[3] = tcgetpgrp(fd)) == -1)
    return (NULL);

retry:
if (sysctl(mib, nitems(mib), NULL, &len, NULL, 0) == -1)
    return (NULL);
len = (len * 5) / 4;

if ((newbuf = realloc(buf, len)) == NULL)
    goto error;
buf = newbuf;

mib[5] = (int)(len / sizeof(struct kinfo_proc));
if (sysctl(mib, nitems(mib), buf, &len, NULL, 0) == -1) {
    if (errno == ENOMEM)
        goto retry;
    goto error;
}

bestp = NULL;
for (i = 0; i < len / sizeof (struct kinfo_proc); i++) {
    if ((dev_t)buf[i].p_tdev != sb.st_rdev)
        continue;
    if (bestp == NULL)
        bestp = &buf[i];
    else
        bestp = cmp_procs(&buf[i], bestp);
}

name = NULL;
if (bestp != NULL)
    name = strdup(bestp->p_comm);
free(buf);
return (name);

error:
free(buf);
return (NULL);

char*
osdep_get_cwd(pid_t pid)
{
    intname[] = { CTL_KERN, KERN_PROC_CWD, (int)pid }; 
    static char path[MAXPATHLEN];
    size_t pathlen = sizeof path;

if (sysctl(name, 3, path, &pathlen, NULL, 0) != 0)
return (NULL);
return (path);
}

struct event_base *
osdep_event_init(void)
{
return (event_init());
}

---

1.1511 tncfhh 0.8.3 :16.el7
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**1.1513 tpm-tools 1.3.4 :2.el6**

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1.1518 ttmkfdir 3.0.9 :42.el7.centos

1.1519 tuned 2.5.1 :4.el7

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1.1529 unbound-libs 1.6.6 :1.el7

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1.1530 unzip 6.0 :19.el7

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The original unzip source code has been extensively modified and almost entirely rewritten (changes include random zipfile access rather than sequential; replacement of unimplode() with explode(); replacement of old unshrink() with new (unrelated) unshrink(); replacement of output routines; addition of inflate(), wildcards, filename-mapping, text translation, ...; etc.). As far as we can tell, only the core code of the unreduce method remained substantially similar to Mr. Smith's original source. As of UnZip 5.42, the complete core code is now covered by the Info-ZIP Licence. Therefore, support for the reduce method has been removed. The drop of the reduce method should only affect some test archives, reducing was never used in any publically distributed Zip program. For pathologic cases where support for reduced archive entries is needed, the unreduce code copyrighted by Samuel H. Smith is available as a separate distribution (the restricted copyright of this code is cited below in the "historical" section).

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*
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# Contributions to the urllib3 project

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* erikcederstrand <http://code.google.com/u/erikcederstrand/>
  * NTLM-authenticated HTTPSConnectionPool
  * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>
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  * Response gzip and deflate encoding support
  * Better unicode support for filepost using StringIO buffers

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  * SSL fingerprint and alternative hostname verification
  * Bugfixes in testsuite

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* Marc Schlaich <marc.schlaich@gmail.com>
  * Various bugfixes and test improvements.

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  * Correct six.moves conflict
  * Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@ravellosystems.com>
  * Allowed to skip SSL hostname verification

* Cory Benfield <http://lukasa.co.uk/about/>
  * Stream method for Response objects.
  * Return native strings in header values.
  * Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
  * Add missing WrappedSocket.fileno method in PyOpenSSL

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
  * Fixed a race condition

* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
  * Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
  * Added abstraction for granular control of request fields

* Martin von Gagern <Martin.vGagern@gmx.net>
  * Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
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* Peter Waller <p@pwaller.net>
  * HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn1313@gmail.com>
  * Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <http://dbrgn.ch/>
  * Disabled TLS compression by default on Python 3.2+
  * Disabled TLS compression in pyopenssl contrib module
  * Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
  * Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
  * Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
  * HTTPHeaderDict and associated tests and docs
  * Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>
  * Added Timeout examples in docs

* Arthur Grunseid <http://grunseid.com>
  * source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graffatcolmingov@gmail.com>
  * PEP8 Compliance and Linting
  * Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
  * Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
  * Google App Engine documentation

* Aaron Meurer <asmeurer@gmail.com>
  * Added Url.url, which unparses a Url

* Evgeny Kapun <abacabadabacaba@gmail.com>
  * Bugfixes

* Benjamen Meyer <bm_witness@yahoo.com>
  * Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
  * Support for using ConnectionPool and PoolManager as context managers.
* Alex Gaynor <alex.gaynor@gmail.com>
  * Updates to the default SSL configuration

* Tomas Tomecek <ttomecek@redhat.com>
  * Implemented generator for getting chunks from chunked responses.

* tlynn <https://github.com/tlynn>
  * Respect the warning preferences at import.

* David D. Riddle <ddriddle@illinois.edu>
  * IPv6 bugfixes in testsuite

* Jon Wayne Parrott <jonwayne@google.com>
  * App Engine environment tests.

* John Krauss <https://github.com/talos>
  * Clues to debugging problems with `cryptography` dependency in docs

* Disassem <https://github.com/Disassem>
  * Fix pool-default headers not applying for url-encoded requests like GET.

* James Atherfold <jlatherfold@hotmail.com>
  * Bugfixes relating to cleanup of connections during errors.

* Christian Pedersen <https://github.com/chripede>
  * IPv6 HTTPS proxy bugfix

* Jordan Moldow <https://github.com/jmoldow>
  * Fix low-level exceptions leaking from `HTTPResponse.stream()`.
  * Bugfix for `ConnectionPool.urlopen(release_conn=False)`.
  * Creation of `HTTPConnectionPool.ResponseCls`.

* Predrag Gruevski <https://github.com/obi1kenobi>
  * Made cert digest comparison use a constant-time algorithm.

* Adam Talsma <https://github.com/a-tal>
  * Bugfix to ca_cert file paths.

* Evan Meagher <https://evanmeagher.net>
  * Bugfix related to `memoryview` usage in PyOpenSSL adapter

* John Vandenberg <jayvdb@gmail.com>
  * Python 2.6 fixes; pyflakes and pep8 compliance

* Andy Caldwell <andy.m.caldwell@googlemail.com>
  * Bugfix related to reusing connections in indeterminate states.
* Ville Skytt <ville.skytta@iki.fi>
  * Logging efficiency improvements, spelling fixes, Travis config.

* Shige Takeda <smtakeda@gmail.com>
  * Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

* Jesse Shapiro <jesse@jesseshapiro.net>
  * Various character-encoding fixes/tweaks
  * Disabling IPv6 DNS when IPv6 connections not supported

* David Foster <http://dafoster.net/>
  * Ensure order of request and response headers are preserved.

* Jeremy Cline <jeremy@jcline.org>
  * Added connection pool keys by scheme

* Aviv Palivoda <palaviv@gmail.com>
  * History list to Retry object.
  * HTTPResponse contains the last Retry object.

* Nate Prewitt <nate.prewitt@gmail.com>
  * Ensure timeouts are not booleans and greater than zero.
  * Fixed infinite loop in `stream` when amt=None.
  * Added length_remaining to determine remaining data to be read.
  * Added enforce_content_length to raise exception when incorrect content-length received.

* Seth Michael Larson <sethmichaellarson@protonmail.com>
  * Created selectors backport that supports PEP 475.

* Alexandre Dias <alex.dias@smarkets.com>
  * Don't retry on timeout if method not in whitelist

* Moinuddin Quadri <moin18@gmail.com>
  * Lazily load idna package

* Tom White <s6yg1ez3@mail2tor.com>
  * Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

* Tim Burke <tim.burke@gmail.com>
  * Stop buffering entire deflate-encoded responses.

* Tuukka Mustonen <tuukka.mustonen@gmail.com>
  * Add counter for status_forceclist retries.

* Erik Rose <erik@mozilla.com>
  * Bugfix to pyopenssl vendoring

* Wolfgang Richter <wolfgang.richter@gmail.com>
* Bugfix related to loading full certificate chains with PyOpenSSL backend.
* Mike Miller <github@mikeage.net>
* Logging improvements to include the HTTP(S) port when opening a new connection
* Ioannis Tziakos <mail@itziakos.gr>
* Fix ``util.selectors._fileobj_to_fd`` to accept ``long``.
* Update appveyor tox setup to use the 64bit python.

* Akamai (through Jesse Shapiro) <jshapiro@akamai.com>
* Ongoing maintenance

* Dominique Leuenberger <dimstar@opensuse.org>
* Minor fixes in the test suite

* Will Bond <will@wbond.net>
* Add Python 2.6 support to ``contrib.securetransport``

* Aleksei Alekseev <alekseev.yeskela@gmail.com>
* using auth info for socks proxy

* Chris Wilcox <git@crwilcox.com>
* Improve contribution guide
* Add ``HTTPResponse.geturl`` method to provide ``urllib2.urlopen().geturl()`` behavior

* [Your name or handle] <[email or website]>
* [Brief summary of your changes]

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1.1537 userspace-rcu 0.7.16 :1
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Mathieu Desnoyers
May 13th, 2009

IBM Corporation allowed LGPLv2.1+ licensing of their contribution to the userspace RCU library in a patch submitted on May 8, 2009 from Paul E. McKenney and reviewed by Steven L. Bennett:


I (Mathieu Desnoyers) re-implemented ACCESS_ONCE(), likely(), unlikely() and barrier() from scratch without reference to the original code.

commit id : 2dc5fa0f7cfbfb0a64a7a67b39626650e863f16a

Bert Wesarg <bert.wesarg@googlemail.com> approved LGPL relicensing of his patch in an email dated May 13, 2009 :

http://lkml.org/lkml/2009/5/13/16

xchg() primitives has been rewritten from a MIT-licensed cmpxchg for Intel and powerpc. They are MIT-licensed and therefore usable in LGPL code. This cmpxchg code was obtained from the atomic_ops project:

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I (Mathieu Desnoyers) wrote the remainder of the code.

The license for the library files in this project was therefore changed to LGPLv2.1 on May 13, 2009, as detailed in LICENSE.

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Mathieu Desnoyers
September 3, 2012

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m4/ax_tls.m4

1.1538 ustr 1.0.4 :16.el7
1.1538.1 Available under license:

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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interface-compatible with the version that the work was made with.

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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Initialize empty image
f1c9645db4c1e4fddc7d8a322685f26eb bsd.img
Create new DOS partition table
57e721e38d1266c2d055067c18f2cf9 bsd.img

---layout--------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device Boot Start   End   Blocks   Id   System
-------------------
Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout--------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

<table>
<thead>
<tr>
<th>Device Boot</th>
<th>Start</th>
<th>End</th>
<th>Blocks</th>
<th>Id</th>
<th>System</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ts_dev</strong> 1</td>
<td>2048</td>
<td>4095</td>
<td>1024</td>
<td>83</td>
<td>Linux</td>
</tr>
</tbody>
</table>

Create 2st primary partition
1bebf87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8dff51a88a045db233418dd73fbe bsd.img

---layout---------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

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<td>2048</td>
<td>4095</td>
<td>1024</td>
<td>83</td>
<td>Linux</td>
</tr>
</tbody>
</table>

Create default BSD
2e1cee529cb59c9341afe0443f196a1 bsd.img

---layout---------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
# start end size fstype [fsise bsize cpg]
c: 4096 20479 16384 unused 0 0
d: 0 16064 16065 unused 0 0

BSD disklabel command (m for help):
Command (m for help):

---------

b5c121c2091b2ff26b880551feac7112 bsd.img
---layout----------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
#   start   end    size   fstype   [fszie bsize cpg]
a:   4096   6144   2049     4.2BSD        0     0     0
c:   4096   20479  16384   unused        0     0
d:     0   16064  16065   unused        0     0

BSD disklabel command (m for help):
Command (m for help):
-------------------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
0  unused           5  4.1BSD           9  4.4LFS           d  boot
1  swap             6  Eighth Edition   a  unknown          e  ADOS
2  Version 6        7  4.2BSD           b  HPFS             f  HFS
3  Version 7        8  MS-DOS           c  ISO-9660        10  AdvFS
4  System V

BSD disklabel command (m for help):
size: 8388608, sector size: 512, PT: dos, offset: 446, id=0x8f8378c0
---
#1:   32  7648  0x83
#2:   7680  8704  0xa5
#5:   7936  4864  0x7 (freebsd)
#6:  12544  3584  0x7 (freebsd)

1.1540 util-linux 2.23.2 :26.el7_2.3
1.1540.1 Available under license:

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Initialize empty image
f1c9645d6c14efddc7d8a322685f26eb bsd.img
Create new DOS partition table
57e721e38d1266c2d055067c18f2cf9 bsd.img

---layout-------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device Boot Start End Blocks Id System
-------------------
Create 1st primary partition
ada64ace122978d00d1d1e5ee45d26 bsd.img

---layout-------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device Boot Start End Blocks Id System
__ts_dev__ 1 2048 4095 1024 83 Linux
-------------------

Create 2st primary partition
1beb87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8df51a88a045db233418dd73f8 bsd.img

---layout-------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

```
Device          Boot Start  End   Blocks   Id  System
__ts_dev__1      2048  4095   1024   83  Linux
__ts_dev__2      4096 20479   8192  a5  FreeBSD
```

Create default BSD
2e1cee529cb59c9341afe0443f196a1 bsd.img

---layout--------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
#   start   end   size   fstype   [fsize bsize   cpg]
c:  4096  20479  16384   unused        0     0

d:   0  16064  16065   unused        0     0

BSD disklabel command (m for help):
Command (m for help):

```
b5c121c2091b2ff26b880551feac7112 bsd.img
```

---layout--------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
#   start   end   size   fstype   [fsize bsize   cpg]
a:  4096  6144  2049   4.2BSD        0     0     0
c:  4096  20479  16384   unused        0     0
d:   0  16064  16065   unused        0     0

---layout--------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):
BSD disklabel command (m for help):
Command (m for help):
-------------------
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
0  unused           5  4.1BSD           9  4.4LFS           d  boot
1  swap             6  Eighth Edition  a  unknown          e  ADOS
2  Version 6        7  4.2BSD           b  HPFS             f  HFS
3  Version 7        8  MS-DOS           c  ISO-9660         10  AdvFS
4  System V

BSD disklabel command (m for help):
size: 8388608, sector size: 512, PT: dos, offset: 446, id=0x8f8378c0
---
#1:         32       7648  0x83
#2:       7680       8704  0xa5
#5:       7936       4864  0x7 (freebsd)
#6:      12544       3584  0x7 (freebsd)

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" Vim syntax file
" Language:Software Distributor product specification file
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" Maintainer:Rex Barzee <rex_barzee@hp.com>
" Last change:25 Apr 2001

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//
if version < 600
" Remove any old syntax stuff hanging around
syn clear
elseif exists("b:current_syntax")
finish
endif
" Product specification files are case sensitive
syn case match
syn keyword psfObject bundle category control_file depot distribution
syn keyword psfObject end file fileset host installed_software media
syn keyword psfObject product root subproduct vendor
syn match psfUnquotString +[^"# ][^#]*+ contained
syn region psfQuotString start=+"+ skip=+\\"+ end=+"+ contained
syn match psfObjTag "\<[-_+A-Z0-9a-z]\+\(\.[-_+A-Z0-9a-z]\+\)*" contained
syn match psfAttAbbrev ",\<\(fa\|fr\|[aclqrv]\)\(<\|>\|<=\|>=\|=\|==\)[^,]\+" contained
syn match psfObjTags "\<[-_+A-Z0-9a-z]\+\(\.[-_+A-Z0-9a-z]\+\)*\(\s\+\<[-_+A-Z0-9a-z]\+\(\.[-_+A-Z0-9az]\+\)*\)*" contained
syn match psfNumber "\<\d\+\>" contained
syn match psfFloat "\<\d\+\>\(\.\<\d\+\>\)*" contained
syn match psfLongDate "\<\d\d\d\d\d\d\d\d\d\d\d\d\.\d\d\>" contained
syn keyword psfState available configured corrupt installed transient contained
syn keyword psfPState applied committed superseded contained
syn keyword psfBoolean false true contained

"Some of the attributes covered by attUnquotString and attQuotString:
" architecture category_tag control_directory copyright
" create_date description directory file_permissions install_source
" install_type location machine_type mod_date number os_name os_release
" os_version pose_as_os_name pose_as_os_release readme revision
" share_link title vendor_tag
syn region psfAttUnquotString matchgroup=psfAttrib start=~^\s*[^# ]\+\s\+[^#" ]~rs=e-1
contains=psfUnquotString,psfComment end=~$~ keepend oneline
syn region psfAttQuotString matchgroup=psfAttrib start=~^\s*[^# ]\+\s\+"~rs=e-1
contains=psfQuotString,psfComment skip=~\\"~ matchgroup=psfQuotString end=~"~ keepend

" These regions are defined in attempt to do syntax checking for some
" of the attributes.

Open Source Used In Application Centric Infrastructure Service Engine (ACI-SE) 1.1
28783


Define the default highlighting.
" For version 5.7 and earlier: only when not done already
" For version 5.8 and later: only when an item doesn't have highlighting yet
if version >= 508 || !exists("did_psf_syntax_inits")
    if version < 508
        let did_psf_syntax_inits = 1
        command -nargs=+ HiLink hi link <args>
    else
        command -nargs=+ HiLink hi def link <args>
    endif

HiLink psfObject       Statement
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SUMMARY

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1) This license text must be included unmodified.
2) The modified Vim must be distributed in one of the following five ways:
   a) If you make changes to Vim yourself, you must clearly describe in the distribution how to contact you. When the maintainer asks you (in any way) for a copy of the modified Vim you distributed, you must make your changes, including source code, available to the maintainer without fee. The maintainer reserves the right to include your changes in the official version of Vim. What the maintainer will do with your changes and under what license they will be distributed is negotiable. If there has been no negotiation then this license, or a later version, also applies to your changes.
   b) If you have received a modified Vim that was distributed as mentioned under a) you are allowed to further distribute it unmodified, as mentioned at I). If you make additional changes the text under a) applies to those changes.
   c) Provide all the changes, including source code, with every copy of the modified Vim you distribute. This may be done in the form of a context diff. You can choose what license to use for new code you add. The changes and their license must not restrict others from making their own changes to the official version of Vim.
   d) When you have a modified Vim which includes changes as mentioned under c), you can distribute it without the source code for the changes if the following three conditions are met:
      - The license that applies to the changes permits you to distribute the changes to the Vim maintainer without fee or restriction, and permits the Vim maintainer to include the changes in the official version of Vim without fee or restriction.
      - You keep the changes for at least three years after last distributing the corresponding modified Vim. When the maintainer or someone who you distributed the modified Vim to asks you (in any way) for the changes within this period, you must make them available to him.
      - You clearly describe in the distribution how to contact you. This contact information must remain valid for at least three years after last distributing the corresponding modified Vim, or as long as possible.
e) When the GNU General Public License (GPL) applies to the changes, you can distribute the modified Vim under the GNU GPL version 2 or any later version.

3) A message must be added, at least in the output of the ":version" command and in the intro screen, such that the user of the modified Vim is able to see that it was modified. When distributing as mentioned under 2)e) adding the message is only required for as far as this does not conflict with the license used for the changes.

4) The contact information as required under 2)a) and 2)d) must not be removed or changed, except that the person himself can make corrections.

III) If you distribute a modified version of Vim, you are encouraged to use the Vim license for your changes and make them available to the maintainer, including the source code. The preferred way to do this is by e-mail or by uploading the files to a server and e-mailing the URL. If the number of changes is small (e.g., a modified Makefile) e-mailing a context diff will do. The e-mail address to be used is <maintainer@vim.org>

IV) It is not allowed to remove this license from the distribution of the Vim sources, parts of it or from a modified version. You may use this license for previous Vim releases instead of the license that they came with, at your option.

=== end of license ===

Note:

- If you are happy with Vim, please express that by reading the rest of this file and consider helping needy children in Uganda.

- If you want to support further Vim development consider becoming a [sponsor]. The money goes to Uganda anyway.

- According to Richard Stallman the Vim license is GNU GPL compatible. A few minor changes have been made since he checked it, but that should not make a difference.

- If you link Vim with a library that goes under the GNU GPL, this limits further distribution to the GNU GPL. Also when you didn't actually change anything in Vim.

- Once a change is included that goes under the GNU GPL, this forces all further changes to also be made under the GNU GPL or a compatible license.

- If you distribute a modified version of Vim, you can include your name and contact information with the "--with-modified-by" configure argument or the
Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the south of Uganda, near Tanzania, in East Africa. The area is known as Rakai District. The population is mostly farmers. Although people are poor, there is enough food. But this district is suffering from AIDS more than any other part of the world. Some say that it started there. Estimations are that 10 to 30% of the Ugandans are infected with HIV. Because parents die, there are many orphans. In this district about 60,000 children have lost one or both parents, out of a population of 350,000. And this is still continuing.

The children need a lot of help. The KCC is working hard to provide the needy with food, medical care and education. Food and medical care to keep them healthy now, and education so that they can take care of themselves in the future. KCC works on a Christian base, but help is given to children of any religion.

The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have to learn how to take care of themselves and how to avoid infections. There is also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them how to grow healthy food.

Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income (if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production site for cement slabs. These are used to build a good latrine. They are sold below cost price.

There is a small clinic at the project, which provides children and their family with medical help. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).
Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this I’m raising funds and organizing the sponsorship program. Please consider one of these possibilities:

1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation

Compared with other organizations that do child sponsorship the amounts are very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Further more, the centre has been co-sponsored and inspected by World Vision, Save the Children Fund and is now under the supervision of Pacific Academy Outreach Society. The centre is visited about once a year to check the progress (at our own cost). I have visited the centre myself many times, starting in 1993. The visit reports are on the ICCF web site.

If you have any further questions, send me e-mail: <Bram@vim.org>.

The address of the centre is:
Kibaale Children's Centre
p.o. box 1658
Masaka, Uganda, East Africa

Sending money:*iccf-donations*

Check the ICCF web site for the latest information! See [iccf] for the URL.

USA: The methods mentioned below can be used.
Sending a check to the Nehemiah Group Outreach Society (NGOS) is no longer possible, unfortunately. We are looking for another way to get you an IRS tax receipt.
For sponsoring a child contact KCF in Canada (see below). US checks can be sent to them to lower banking costs.

Canada: Contact Kibaale Children’s Fund (KCF) in Surrey, Canada. They
take care of the Canadian sponsors for the children in Kibaale. KCF forwards 100% of the money to the project in Uganda. You can send them a one time donation directly. Please send me a note so that I know what has been donated because of Vim. Ask KCF for information about sponsorship.

Kibaale Children's Fund c/o Pacific Academy
10238-168 Street
Surrey, B.C. V4N 1Z4
Canada
Phone: 604-581-5353

If you make a donation to Kibaale Children's Fund (KCF) you will receive a tax receipt which can be submitted with your tax return.

Holland: Transfer to the account of "Stichting ICCF Holland" in Lisse. This will allow for tax deduction if you live in Holland.
Postbank, nr. 4548774
IBAN: NL95 INGB 0004 5487 74

Germany: It is possible to make donations that allow for a tax return. Check the ICCF web site for the latest information:
http://iccf-holland.org/germany.html

World: Use a postal money order. That should be possible from any country, mostly from the post office. Use this name (which is in my passport): "Abraham Moolenaar". Use Euro for the currency if possible.

Europe: Use a bank transfer if possible. Your bank should have a form that you can use for this. See "Others" below for the swift code and IBAN number.
Any other method should work. Ask for information about sponsorship.

Credit Card: You can use PayPal to send money with a Credit card. This is the most widely used Internet based payment system. It's really simple to use. Use this link to find more info:

The e-mail address for sending the money to is:
Bram@iccf-holland.org

For amounts above 400 Euro ($500) sending a check is preferred.

Others: Transfer to one of these accounts if possible:
Postbank, account 4548774
Swift code: INGB NL 2A
IBAN: NL95 INGB 0004 5487 74
under the name "stichting ICCF Holland", Lisse.
If that doesn't work:
Rabobank Lisse, account 3765.05.117
Swift code: RABO NL 2U
under the name "Bram Moolenaar", Lisse
Otherwise, send a check in euro or US dollars to the address
below. Minimal amount: $70 (my bank does not accept smaller
amounts for foreign check, sorry)

Address to send checks to:
Bram Moolenaar
Finsterruethof 1
8134 Adliswil
Switzerland

This address is expected to be valid for a long time.

vim:tw=78:ts=8:ft=help:norl:

1.1546 vim 7.4.160 :5.el7
1.1546.1 Available under license :
/*
 * Copyright (C) 1989-95 GROUPE BULL
 *
 * Permission is hereby granted, free of charge, to any person obtaining a copy
 * of this software and associated documentation files (the "Software"), to
 * deal in the Software without restriction, including without limitation the
 * rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 * sell copies of the Software, and to permit persons to whom the Software is
 * furnished to do so, subject to the following conditions:
 *
 * The above copyright notice and this permission notice shall be included in
 * all copies or substantial portions of the Software.
 *
 * THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 * IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 * FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
 * GROUPE BULL BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN
 * AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
 * CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
 *
 * Except as contained in this notice, the name of GROUPE BULL shall not be
 * used in advertising or otherwise to promote the sale, use or other dealings
 * in this Software without prior written authorization from GROUPE BULL.
 */

Arnaud LE HORS    BULL Research FRANCE -- Koala Project
VIM REFERENCE MANUAL  by Bram Moolenaar

*uganda*  *Uganda*  *copying*  *copyright*  *license*
SUMMARY
*iccf*  *ICCF*
Vim is Charityware. You can use and copy it as much as you like, but you are
couraged to make a donation for needy children in Uganda. Please see [kcc]
below or visit the ICCF web site, available at these URLs:

http://iccf-holland.org/
http://www.vim.org/iccf/
http://www.iccf.nl/

You can also sponsor the development of Vim. Vim sponsors can vote for
features. See [sponsor]. The money goes to Uganda anyway.

The Open Publication License applies to the Vim documentation, see
[manual-copyright].

=== begin of license ===

VIM LICENSE

I) There are no restrictions on distributing unmodified copies of Vim except
that they must include this license text. You can also distribute
unmodified parts of Vim, likewise unrestricted except that they must
include this license text. You are also allowed to include executables
that you made from the unmodified Vim sources, plus your own usage
examples and Vim scripts.

II) It is allowed to distribute a modified (or extended) version of Vim,
including executables and/or source code, when the following four
conditions are met:

1) This license text must be included unmodified.

2) The modified Vim must be distributed in one of the following five ways:
   a) If you make changes to Vim yourself, you must clearly describe in
      the distribution how to contact you. When the maintainer asks you
      (in any way) for a copy of the modified Vim you distributed, you
      must make your changes, including source code, available to the
maintainer without fee. The maintainer reserves the right to include your changes in the official version of Vim. What the maintainer will do with your changes and under what license they will be distributed is negotiable. If there has been no negotiation then this license, or a later version, also applies to your changes. The current maintainer is Bram Moolenaar <Bram@vim.org>. If this changes it will be announced in appropriate places (most likely vim.sf.net, www.vim.org and/or comp.editors). When it is completely impossible to contact the maintainer, the obligation to send him your changes ceases. Once the maintainer has confirmed that he has received your changes they will not have to be sent again.

b) If you have received a modified Vim that was distributed as mentioned under a) you are allowed to further distribute it unmodified, as mentioned at I). If you make additional changes the text under a) applies to those changes.

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=== end of license ===

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==============================================================================
Kibaale Children's Centre*  KCC*  *Kibaale*  *charity*

Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the south of Uganda, near Tanzania, in East Africa. The area is known as Rakai District. The population is mostly farmers. Although people are poor, there is enough food. But this district is suffering from AIDS more than any other part of the world. Some say that it started there. Estimations are that 10 to 30% of the Ugandans are infected with HIV. Because parents die, there are many orphans. In this district about 60,000 children have lost one or both
parents, out of a population of 350,000. And this is still continuing.

The children need a lot of help. The KCC is working hard to provide the needy with food, medical care and education. Food and medical care to keep them healthy now, and education so that they can take care of themselves in the future. KCC works on a Christian base, but help is given to children of any religion.

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There is a small clinic at the project, which provides children and their family with medical help. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).

*donate*

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

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Kibaale Children's Centre
p.o. box 1658
Masaka, Uganda, East Africa

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Contact Kibaale Children's Fund (KCF) in Surrey, Canada. They take care of the Canadian sponsors for the children in Kibaale. KCF forwards 100% of the money to the project in Uganda. You can send them a one time donation directly. Please send me a note so that I know what has been donated because of Vim. Ask KCF for information about sponsorship.
Kibaale Children’s Fund c/o Pacific Academy
10238-168 Street
Surrey, B.C. V4N 1Z4
Canada
Phone: 604-581-5353
If you make a donation to Kibaale Children's Fund (KCF) you will receive a tax receipt which can be submitted with your
tax return.

Holland: Transfer to the account of "Stichting ICCF Holland" in Lisse. This will allow for tax deduction if you live in Holland.
Postbank, nr. 4548774
IBAN: NL95 INGB 0004 5487 74

Germany: It is possible to make donations that allow for a tax return. Check the ICCF website for the latest information:
http://iccf-holland.org/germany.html

World: Use a postal money order. That should be possible from any country, mostly from the post office. Use this name (which is in my passport): "Abraham Moolenaar". Use Euro for the currency if possible.

Europe: Use a bank transfer if possible. Your bank should have a form that you can use for this. See "Others" below for the swift code and IBAN number.
Any other method should work. Ask for information about sponsorship.

Credit Card: You can use PayPal to send money with a Credit card. This is the most widely used Internet based payment system. It's really simple to use. Use this link to find more info:
The e-mail address for sending the money to is:
Bram@iccf-holland.org
For amounts above 400 Euro ($500) sending a check is preferred.

Others: Transfer to one of these accounts if possible:
Postbank, account 4548774
Swift code: INGB NL 2A
IBAN: NL95 INGB 0004 5487 74
under the name "stichting ICCF Holland", Lisse
If that doesn't work:
Rabobank Lisse, account 3765.05.117
Swift code: RABO NL 2U
under the name "Bram Moolenaar", Lisse
Otherwise, send a check in euro or US dollars to the address below. Minimal amount: $70 (my bank does not accept smaller amounts for foreign check, sorry)

Address to send checks to:
Bram Moolenaar
Finsterruetihof 1
8134 Adliswil
Switzerland

This address is expected to be valid for a long time.

```
vim:tw=78:ts=8:ft=help:norl:
" Vim syntax file
" Language: Software Distributor product specification file
" (POSIX 1387.2-1995).
" Maintainer: Rex Barzee <rex_barzee@hp.com>
" Last change: 25 Apr 2001

if version < 600
  " Remove any old syntax stuff hanging around
  syn clear
elseif exists("b:current_syntax")
  finish
endif

" Product specification files are case sensitive
syn case match

syn keyword psfObject bundle category control_file depot distribution
syn keyword psfObject end file fileset host installed_software media
syn keyword psfObject product root subproduct vendor

syn match  psfUnquotString +[^"#][^#]*+ contained
syn region psfQuotString start=+"+ skip=+"+ end=+"+ contained

syn match  psfObjTag "\[-_+A-Z0-9a-z]+\([-_+A-Z0-9a-z]+\)" contained
syn match  psfAttAbbrev "\<[a-fA-F][a-zA-LRXYZ][a-zA-LRXYZ]\)<|>|<=|>=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|=|" contained
syn match  psfObjTags "\<[a-zA-LRXYZ]+\([-_+A-Z0-9a-z]+\)\([-_+A-Z0-9a-z]+\)\([-_+A-Z0-9a-z]+\)\("" contained

syn match  psfNumber "\d+" contained
syn match  psfFloat "\d+\.\d+" contained
syn match  psfLongDate "\d{16}\.\d{2}" contained

syn keyword psfState available configured corrupt installed transient contained
syn keyword psfPState applied committed superseded contained

syn keyword psfBoolean false true contained

"Some of the attributes covered by attUnquotString and attQuotString:
" architecture category_tag control_directory copyright
" create_date description directory file_permissions install_source
" install_type location machine_type mod_date number os_name os_release
```
" os_version pose_as_os_name pose_as_os_release readme revision
" share_link title vendor_tag
syn region psfAttUnquotString matchgroup=psfAttrib start="\s*[\^# ]\+|\s\+|[^# ]" ~rs=e-1
contains=psfUnquotString,psfComment end="~S~ keepend oneline

syn region psfAttQuotString matchgroup=psfAttrib start="\s*[\^# ]\+|\s\+" ~rs=e-1
contains=psfQuotString,psfComment skip="\"~ matchgroup=psfQuotString end="~ keepend

" These regions are defined in attempt to do syntax checking for some
" of the attributes.
syn region psfAttTag matchgroup=psfAttrib start="\s*tag\s+" contains=psfObjTag,psfComment end="$" keepend oneline

syn region psfAttSpec matchgroup=psfAttrib
start="\s*(ancestor|applied_patches|applied_to|contents|corequisites|exrequisites|prerequisites|software_spec|supersedes|superseded_by)\s+" contains=psfObjTag,psfAttAbbrev,psfComment end="$" keepend

syn region psfAttTags matchgroup=psfAttrib start="\s*all_filesets\s+" contains=psfObjTags,psfComment end="$" keepend

syn region psfAttNumber matchgroup=psfAttrib
start="\s*(compressed_size|instance_id|media_sequence_number|sequence_number|size)\s+"
contains=psfNumber,psfComment end="$" keepend oneline

syn region psfAttTime matchgroup=psfAttrib start="\s*(create_time|ctime|mod_time|mtime|timestamp)\s+"
contains=psfNumber,psfComment end="$" keepend oneline

syn region psfAttFloat matchgroup=psfAttrib start="\s*(data_model_revision|layout_version)\s+"
contains=psfFloat,psfComment end="$" keepend oneline

syn region psfAttLongDate matchgroup=psfAttrib start="\s*install_date\s+"
contains=psfLongDate,psfComment end="$" keepend oneline

syn region psfAttState matchgroup=psfAttrib start="\s*(state)\s+"
contains=psfState,psfComment end="$" keepend oneline

syn region psfAttPState matchgroup=psfAttrib start="\s*(patch_state)\s+"
contains=psfPState,psfComment end="$" keepend oneline

syn region psfAttBoolean matchgroup=psfAttrib
start="\s*(is_kernel|is_locatable|is_patch|is_protected|is_reboot|is_reference|is_secure|is_sparse)\s+"
contains=psfBoolean,psfComment end="$" keepend oneline

syn match psfComment ".+\$"

" Define the default highlighting.
" For version 5.7 and earlier: only when not done already
" For version 5.8 and later: only when an item doesn't have highlighting yet
if version >= 508 || !exists("did_psf_syntax_inits")
  if version < 508
    let did_psf_syntax_inits = 1
    command -nargs=+ HiLink hi link <args>
  else
    command -nargs=+ HiLink hi def link <args>
  endif
endif

HiLink psfObject  Statement
HiLink psfAttrib   Type
HiLink psfQuotString  String
HiLink psfObjTag   Identifier
HiLink psfAttAbbrev PreProc
HiLink psfObjTags  Identifier

HiLink psfComment   Comment

delcommand HiLink
endif

" Long descriptions and copyrights confuse the syntax highlighting, so
" force vim to backup at least 100 lines before the top visible line
" looking for a sync location.
syn sync lines=100

let b:current_syntax = "psf"

1.1547 vim 7.4.160 :1.el7
1.1547.1 Available under license :

/*
 * Copyright (C) 1989-95 GROUPE BULL
 *
 * Permission is hereby granted, free of charge, to any person obtaining a copy
 * of this software and associated documentation files (the "Software"), to
 * deal in the Software without restriction, including without limitation the
 * rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
 * sell copies of the Software, and to permit persons to whom the Software is
 * furnished to do so, subject to the following conditions:
 * *
 * The above copyright notice and this permission notice shall be included in
 * all copies or substantial portions of the Software.
 *
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*uganda.txt* For Vim version 7.4. Last change: 2013 Jul 06

VIM REFERENCE MANUAL   by Bram Moolenaar

*uganda* *Uganda* *copying* *copyright* *license*
SUMMARY
*iicc* *ICCF*
Vim is Charityware. You can use and copy it as much as you like, but you are
encouraged to make a donation for needy children in Uganda. Please see |kcc|
below or visit the ICCF web site, available at these URLs:

http://iccf-holland.org/
http://www.vim.org/iccf/
http://www.iccf.nl/

You can also sponsor the development of Vim. Vim sponsors can vote for
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=== begin of license ===

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<maintainer@vim.org>

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=== end of license ===

Note:

- If you are happy with Vim, please express that by reading the rest of this
  file and consider helping needy children in Uganda.

- If you want to support further Vim development consider becoming a
  [sponsor]. The money goes to Uganda anyway.

- According to Richard Stallman the Vim license is GNU GPL compatible.
  A few minor changes have been made since he checked it, but that should not
  make a difference.

- If you link Vim with a library that goes under the GNU GPL, this limits
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  anything in Vim.

- Once a change is included that goes under the GNU GPL, this forces all
  further changes to also be made under the GNU GPL or a compatible license.

- If you distribute a modified version of Vim, you can include your name and
  contact information with the "--with-modified-by" configure argument or the
  MODIFIED_BY define.
Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the south of Uganda, near Tanzania, in East Africa. The area is known as Rakai District. The population is mostly farmers. Although people are poor, there is enough food. But this district is suffering from AIDS more than any other part of the world. Some say that it started there. Estimations are that 10 to 30% of the Ugandans are infected with HIV. Because parents die, there are many orphans. In this district about 60,000 children have lost one or both parents, out of a population of 350,000. And this is still continuing.

The children need a lot of help. The KCC is working hard to provide the needy with food, medical care and education. Food and medical care to keep them healthy now, and education so that they can take care of themselves in the future. KCC works on a Christian base, but help is given to children of any religion.

The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have to learn how to take care of themselves and how to avoid infections. There is also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them how to grow healthy food.

Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income (if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production site for cement slabs. These are used to build a good latrine. They are sold below cost price.

There is a small clinic at the project, which provides children and their family with medical help. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).

*donate*
Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation

Compared with other organizations that do child sponsorship the amounts are very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Further more, the centre has been co-sponsored and inspected by World Vision, Save the Children Fund and is now under the supervision of Pacific Academy Outreach Society. The centre is visited about once a year to check the progress (at our own cost). I have visited the centre myself many times, starting in 1993. The visit reports are on the ICCF web site.

If you have any further questions, send me e-mail: <Bram@vim.org>.

The address of the centre is:
Kibaale Children's Centre
p.o. box 1658
Masaka, Uganda, East Africa

Sending money:*iccf-donations*

Check the ICCF web site for the latest information! See [iccf] for the URL.

USA: The methods mentioned below can be used.
Sending a check to the Nehemiah Group Outreach Society (NGOS) is no longer possible, unfortunately. We are looking for another way to get you an IRS tax receipt.
For sponsoring a child contact KCF in Canada (see below). US checks can be sent to them to lower banking costs.

Canada: Contact Kibaale Children's Fund (KCF) in Surrey, Canada. They take care of the Canadian sponsors for the children in
Kibaale. KCF forwards 100% of the money to the project in Uganda. You can send them a one time donation directly. Please send me a note so that I know what has been donated because of Vim. Ask KCF for information about sponsorship.

Kibaale Children's Fund c/o Pacific Academy
10238-168 Street
Surrey, B.C. V4N 1Z4
Canada
Phone: 604-581-5353

If you make a donation to Kibaale Children's Fund (KCF) you will receive a tax receipt which can be submitted with your tax return.

Holland: Transfer to the account of "Stichting ICCF Holland" in Lisse. This will allow for tax deduction if you live in Holland.
Postbank, nr. 4548774
IBAN: NL95 INGB 0004 5487 74

Germany: It is possible to make donations that allow for a tax return. Check the ICCF web site for the latest information:
http://iccf-holland.org/germany.html

World: Use a postal money order. That should be possible from any country, mostly from the post office. Use this name (which is in my passport): "Abraham Moolenaar". Use Euro for the currency if possible.

Europe: Use a bank transfer if possible. Your bank should have a form that you can use for this. See "Others" below for the swift code and IBAN number. Any other method should work. Ask for information about sponsorship.

Credit Card: You can use PayPal to send money with a Credit card. This is the most widely used Internet based payment system. It's really simple to use. Use this link to find more info:
The e-mail address for sending the money to is:
Bram@iccf-holland.org
For amounts above 400 Euro ($500) sending a check is preferred.

Others: Transfer to one of these accounts if possible:
Postbank, account 4548774
Swift code: INGB NL 2A
IBAN: NL95 INGB 0004 5487 74
under the name "stichting ICCF Holland", Lisse
If that doesn't work:
Rabobank Lisse, account 3765.05.117
Swift code: RABO NL 2U
under the name “Bram Moolenaar”, Lisse
Otherwise, send a check in euro or US dollars to the address
below. Minimal amount: $70 (my bank does not accept smaller
amounts for foreign check, sorry)

Address to send checks to:
Bram Moolenaar
Finsterrueihof 1
8134 Adliswil
Switzerland

This address is expected to be valid for a long time.

vim:tw=78:ts=8:ft=help:norl:

1.1548 vim-enhanced 7.4.160-5.el7

1.1549 virt-what 1.13 :6.el7

1.1549.1 Available under license :

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1.1550 virtualenv 12.1.1
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Mac OS X: 
ATTRcom.apple.acl.text!#acl 1
user:FFFFEEEE-DDDD-CCCC-BBBB-AAAA00000059:_spotlight:89:allow,inherited:read,execute,readattr,readextattr,readsecurity

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base64.cpp and base64.h

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L. Peter Deutsch
ghost@aladdin.com

***** UTF8 Validation logic (utf8_validation.hpp) *****

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1.1557 websocketpy27 0.12.0 :2

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$Id$

Installing Wireshark on FreeBSD/OpenBSD/NetBSD/DragonFly BSD

---

Open Source Used In Application Centric Infrastructure Service Engine (ACI-SE) 1.1
1. Extra packages required
2. Compiling Wireshark
3. Berkeley Packet Filter (BPF) requirement
4. Running Wireshark as a non-root user

1. Extra packages required

---------------------------
Wireshark requires a number of additional programs to function.
Install the latest versions of the following programs before compiling:

atk
cairo
expat
gettext
glib2
glitz
gtk2 / gtk+2
jpeg
pango
pkgconfig
png
tiff

The easiest way to install these is by using your operating system's ports or packages system.

2. Compiling Wireshark

-----------------------
To compile Wireshark with the default options, run configure, make and make install (you may have to run "autogen.sh" first):

```
./configure
make
make install
```

The configure and make steps can be run as a non-root user and you can run Wireshark from the compilation directory itself. You must run make install as root in order to copy the program to the proper directories.

3. Berkeley Packet Filter (BPF) requirement

---------------------------
In order to capture packets (with Wireshark/TShark, tcpdump, or any other packet capture program) on a BSD system, your kernel must have the Berkeley Packet Filter mechanism enabled. The default kernel
configurations in recent versions of BSD systems have this enabled already. To verify the bpf device is present, look in the /dev directory:

```
ls -l /dev/bpf*
```

You should see one or more bpf devices listed similar to this:

```
crw------- 1 root  wheel 0, 90 Aug 10 21:05 /dev/bpf0
crw------- 1 root  wheel 0, 91 Aug 10 21:05 /dev/bpf1
```

Packet-capturing programs will pick the first bpf device that's not in use. Recent versions of most BSDs will create bpf devices as needed, so you don't have to configure the number of devices that will be available.

4. Running wireshark as a non-root user
-------------------------------------------

Since the bpf devices are read-only by the owner (root), you normally have to run packet capturing programs such as Wireshark as root. It is safer to run programs as a non-root user if possible. To run Wireshark as a non-root user, you must change the permissions on the bpf device(s).

If you are the only user that needs to use Wireshark, the easiest way is to change the owner of each bpf device to your username. You can also add the read/write ability to the group (typically wheel) and add users that need to use Wireshark to the wheel group. Check your operating system's documentation on how to make permanent these changes as they are often reset upon reboot; if /dev is implemented with devfs, it might be possible to configure devfs to create all bpf devices owned by a particular user and/or group and with particular permissions. In FreeBSD 6.0 and later this can be done by creating an /etc/devfs.rules file with content such as

```
[localrules=10]
add path 'bpf*' [mode and permissions]
```

where "mode and permissions" can include clauses such as

```
mode {octal permissions}
```

to set the permissions on the device (e.g., "mode 0660" to set the permissions to rw-rw-r--),

```
user {user}
```

to set the user who owns the device, or

```
group {group}
```
to set the group that owns the device and adding a line such as

devfs_system_ruleset=localrules

to /etc/rc.conf. For example, an /etc/devfs.rules file with

[localrules=10]
add path 'bpf*' mode 0660 group wheel

will grant read and write permissions on all BPF devices to all users in
the "wheel" group.

This package was debianized by Frederic Peters <fpeters@debian.org> on
Sun, 13 Sep 1998 23:05:47 +0200

It was downloaded from http://www.wireshark.org/download/src/all-versions/

The Wireshark web site URL is http://www.wireshark.org/

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merge.c:
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epan/dfilter/gencode.h:
epan/dfilter/glib-util.c:
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  Wireshark terms, according to wireshark-dev@, message-id:
  <c9a3e4540607221458j407d552ekf28309c494487a8b@mail.gmail.com>

gtk/win32-file-dlg.h:
  Contributed by Gerald Combs, Wireshark author, no answer yet but there is no
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/* <filename>.c */

* $Id$

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Installing Wireshark on FreeBSD/OpenBSD/NetBSD/DragonFly BSD
========================================================================
1. Extra packages required
2. Compiling Wireshark
3. Berkeley Packet Filter (BPF) requirement
4. Running Wireshark as a non-root user

1. Extra packages required
------------------------------------------
Wireshark requires a number of additional programs to function.
Install the latest versions of the following programs before compiling:

atk
cairo
expat
gettext
glib2
glitz
gtk2 / gtk+2
jpeg
pango
pkgconfig
png
tiff

The easiest way to install these is by using your operating system's ports or packages system.

2. Compiling Wireshark
-----------------------
To compile Wireshark with the default options, run configure, make and make install (you may have to run "autogen.sh" first):

   ./configure
   make
   make install

The configure and make steps can be run as a non-root user and you can run Wireshark from the compilation directory itself. You must run make install as root in order to copy the program to the proper directories.

3. Berkeley Packet Filter (BPF) requirement
--------------------------------------------
In order to capture packets (with Wireshark/TShark, tcpdump, or any other packet capture program) on a BSD system, your kernel must have the Berkeley Packet Filter mechanism enabled. The default kernel configurations in recent versions of BSD systems have this enabled already. To verify the bpf device is present, look in the /dev directory:

   ls -l /dev/bpf*

You should see one or more bpf devices listed similar to this:

   crw-------  1 root  wheel    0,  90 Aug 10 21:05 /dev/bpf0
   crw-------  1 root  wheel    0,  91 Aug 10 21:05 /dev/bpf1

Packet-capturing programs will pick the first bpf device that's not in use. Recent versions of most BSDs will create bpf devices as needed, so you don't have to configure the number of devices that will be available.

4. Running wireshark as a non-root user
-----------------------------------------
Since the bpf devices are read-only by the owner (root), you normally have to run packet capturing programs such as Wireshark as root. It is safer to run programs as a non-root user if possible. To run Wireshark as a non-root user, you must change the permissions on the bpf device(s).
If you are the only user that needs to use Wireshark, the easiest way is to change the owner of each bpf device to your username. You can also add the read/write ability to the group (typically wheel) and add users that need to use Wireshark to the wheel group. Check your operating system's documentation on how to make permanent these changes as they are often reset upon reboot; if /dev is implemented with devfs, it might be possible to configure devfs to create all bpf devices owned by a particular user and/or group and with particular permissions. In FreeBSD 6.0 and later this can be done by creating an /etc/devfs.rules file with content such as

[localrules=10]
add path 'bpf*' {mode and permissions}

where "mode and permissions" can include clauses such as

mode {octal permissions}

to set the permissions on the device (e.g., "mode 0660" to set the permissions to rw-rw-r--),

user {user}

to set the user who owns the device, or

group {group}

to set the group that owns the device and adding a line such as

devfs_system_ruleset=localrules

to /etc/rc.conf. For example, an /etc/devfs.rules file with

[localrules=10]
add path 'bpf*' mode 0660 group wheel

will grant read and write permissions on all BPF devices to all users in the "wheel" group.

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So, if you want, you may use any 2.N.* (N >= 3) version string for future
xinetd versions that you release. Note that I am excluding the 2.2.* line;
using that would only create confusion. Naming the next release 2.3.0
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1.1581 xmlsec1 1.2.20 :5.el7
1.1581.1 Available under license :
xmlsec, xmlsec-openssl, xmlsec-gnutls, xmlsec-gcrypt libraries

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xmlsec-mscrypto library

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xmlsec-nss library

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in the event an application does not supply such function or
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   its purpose remains meaningful.

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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

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==================

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1.1590 yum 3.4.3 :161.el7.centos

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diff -up yum-3.4.3/yum/update_md.py.org yum-3.4.3/yum/update_md.py
--- yum-3.4.3/yum/update_md.py.org 2017-01-24 18:55:03.529842775 +0100
@@ -58,7 +58,7 @@ class UpdateNotice(object):
     A single update notice (for instance, a security fix).
     
-    def __init__(self, elem=None):
+    def __init__(self, elem=None, repoid=None, vlogger=None):
         self._md = {
             'from'     : '',
             'type'     : '',
@@ -83,6 +83,9 @@ class UpdateNotice(object):
             if elem:
                 self._parse(elem)
+    self._repoid = repoid
+    self._vlogger = vlogger
+
+    def __getitem__(self, item):
+        """ Allows scriptable metadata access (ie: un['update_id']). ""
+        if type(item) is int:
@@ -103,6 +106,24 @@ class UpdateNotice(object):
             # Tests to see if it's "the same data", which means that the
             # packages can be different (see add_notice).
+
+    def _rid(un):
+        if hasattr(un, '_repoid') and un._repoid is not None:
+            return un._repoid
+        else:
+            return '<unknown>'
+
+    def _log_failure(data):
+        """Log the mismatched data similarly to conflict markers in git.""
+        if self._vlogger is None:
+            return
+        msg = _('Duplicate of %s differs in some fields:
')
+        msg += '<<<<<<< %s:%s
' % (_rid(other), data)
+        msg += '%r
=======
%r
' % (other._md[data], self._md[data])
+        msg += '>>>>>>> %s:%s' % (_rid(self), data)
+        # --verbose mode enables this
+        self._vlogger.log(logginglevels.DEBUG_3, msg)
+        

---
if not other or not hasattr(other, '_md'):
    return False

@@ -113,6 +134,7 @@ class UpdateNotice(object):
    if data == 'status': # FIXME: See below...
        continue
    if self._md[data] != other._md[data]:
+        _log_failure(data)
        return False

# FIXME: Massive hack, Fedora is really broken and gives status=stable
# and status=testing for updateinfo notices, just depending on which
@@ -120,8 +142,10 @@ class UpdateNotice(object):
    data = 'status'
    if self._md[data] != other._md[data]:
        if self._md[data]  not in ('stable', 'testing'):
+            _log_failure(data)
            return False
        if other._md[data] not in ('stable', 'testing'):
+            _log_failure(data)
            return False
    # They are both really "stable" ...
    self._md[data]  = 'stable'

@@ -574,7 +598,7 @@ class UpdateMetadata(object):
    try:
        un = UpdateNotice(elem)
+    un = UpdateNotice(elem, repoid, self._vlogger)
    except UpdateNoticeException, e:
        msg = _('An update notice%s is broken, skipping.') % _rid(repoid)
        if self._vlogger:
@@ -587,6 +611,8 @@ class UpdateMetadata(object):
        msg = _('Update notice %s%s is broken, or a bad duplicate, skipping.') % (un['update_id'],
+            _rid(repoid))
        if not have_dup:
            msg += _('You should report this problem to the owner of the %s repository.') % _rid(repoid, "%s")
+            msg += _('If you are the owner, consider re-running the same command with --verbose to see the 
+                    exact data that caused the conflict.')
        have_dup = True
    if self._vlogger:
        self._vlogger.warn("%s", msg)

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except Errors.RepoMDLError:
    continue  # No metadata found for this repo

    self.arch_storage = ArchStorage()
    self.archlist = self.arch_storage.archlist

    def get_notices(self, name=None):
        """Return all notices."""
        if name is None:
@@ -434,16 +438,29 @@ class UpdateMetadata(object):
            name = oldpkgtup[0]
            arch = oldpkgtup[1]
            ret = []
+                other_arch_list = []
+                notices = set()
                for notice in self.get_notices(name):
                    for upkg in notice['pkglist']:
                        for pkg in upkg['packages']:
                            if pkg['name'] != name or pkg['arch'] != arch:
                                continue
-                        if (notice not in notices and pkg['name'] == name and pkg['arch'] in self.archlist):
+                        if (notice not in notices and pkg['name'] == name and pkg['arch'] in self.archlist):
                            other_arch = True
+                        else:
+                            continue
                            pkgtup = (pkg['name'], pkg['arch'], pkg['epoch'] or '0',
                                    pkg['version'], pkg['release'])
                            if _rpm_tup_vercmp(pkgtup, oldpkgtup) <= 0:
                                continue
-                            ret.append((pkgtup, notice))
+                            if other_arch:
+                                other_arch_list.append((pkgtup, notice))
+                            else:
+                                ret.append((pkgtup, notice))
                                notices.add(notice)
                            for pkgtup, notice in other_arch_list:
                                if notice not in notices:
                                    +                            ret.append((pkgtup, notice))
                                    ret.sort(cmp=_rpm_tup_vercmp, key=lambda x: x[0], reverse=True)
                                    return ret

diff -up yum-3.4.3/yum/update_md.py.old yum-3.4.3/yum/update_md.py
+++ yum-3.4.3/yum/update_md.py 2015-05-28 19:24:05.971806965 +0200
@@ -33,6 +33,7 @@ import Errors
 import logginglevels

 import rpmUtils.miscutils
+from rpmUtils.arch import ArchStorage

def safe_iterparse(filename, logger=None):

1.1591 yum 3.4.3 :132.el7.centos.0.1

1.1591.1 Available under license :

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Version 4.3

Contributors to the main shell include Clint Adams, Rocky Bernstein, Andrey Borzenkov, Dan Bullok, Marc Chantreux, Thorsten Dahlheimer, Wayne Davison, Lionel Flandrin, Michael Hwang, Oliver Kiddle, Greg Klanderman, Matthias Kopferman, Mikael Magnusson, Dan Nelson, Phil Pennock, Toby Peterson, R. Ramkumar, Francois Revol, Bart Schaefer, Tom Smetana, Joerg Sonnenberger, Peter Stephenson, Jon Strait, Takimoto Jun, River Tarnell, Frank Terbeck, Philippe Troin, Geoff Wing, Matt Wozniski.

The VCS_Info function system was written by Frank Terbeck with contributions from Julien Langer.

Version 4.2
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The contributor list is similar to that for 4.1.1.

Version 4.1.1
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Sven Wischnowsky <wischnow@zsh.org>: internal completion mechanism and low-level functions, line editor internals, syntax, wordcode mechanism,

Version 4.0.1
----------

Clint Adams <schizo@debian.org>: Completion functions, general configuration and module issues.

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Adam Spiers <adam@spiers.net>: Completion and other functions, completion caching.

Peter Stephenson <pws@zsh.org>: configuration and installation, parameters, completion functions and configuration.

Tanaka Akira <akr@zsh.org>: Completion and test functions.

Geoff Wing <gew@zsh.org>: FTP and mailing list archive

Sven Wischnowsky <wischnow@zsh.org>: Most of the completion code, zpty, signal queueing, parameters, builtins, builtin functions, built-here-and-there; mend garden shed, rewire electricity, reinstall shutters, fix TV aerial in howling gale...

Other patches from E. Jay Birkenbilt, Jan Fedak, Ulrik Haugen, Paul Johnson, Fr. Br. George (George V Kouryachy).

Versions 3.1.7 to 3.1.9
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* Clint Adams <schizo@debian.org>: configuration, various fixes esp. in completion

* Andrej Borsenkow <Andrej.Borsenkow@mow.siemens.ru>: design, testing and patches for completion system, documentation, various other fixes

* Chmouel Boudjnah <chmouel@mandrakesoft.com>: design, testing and patches for completion system, documentation, various other fixes

* Wayne Davison <wayne@clari.net>: History code

* Alexandre Duret-Lutz <duret_g@epita.fr>: design, testing and patches for completion system, documentation, various other fixes

* Oliver Kiddle <opk@zsh.org>: AIX dynamic library support, various completion functions, web page maintenance, documentation fixes

* Andrew Main <zefram@zsh.org>: configuration and module/DLL code, IPv6 support, various other bits

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* Bart Schaefer <schaefer@zsh.org>: documentation and many other bits, archive maintenance

* Adam Spiers <adam@spiers.net>: various completion functions, source code archive maintenance, documentation fixes, prompt themes

* Peter Stephenson <pws@zsh.org>: pattern matching code rewrite and enhancements, typeset and local variables, zftp maintenance, general configuration, floating point support

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Other patches were submitted by Will Day, Irving Wolfe, John Williams, Vin Shelton, Akim Demaille, Helmut Jarausch, Gene Cohler, Johan Sundstrm.
Version 3.1.6

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* Sven Wischnowsky <wischnow@informatik.hu-berlin.de>: completion code, major rewrite and enhancements, including matching control, completion widgets and function system, complist module; zle code additions; job control code changes; parameters code changes; parameter module; additional autoloading code; general code changes for extra efficiency; subscripting and ordering of globbing lists.

* Peter Stephenson <pws@zsh.org>: zftp and mapfile modules and zf* functions; local parameters and typeset changes; changes in autoconf system; case-independent and approximate pattern matching; various options; a few completion modules; some zle changes; FAQ.

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Previous versions of zsh 3 were maintained by Zoltn Hidvgi and Andrew Main (Zefram).

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* Bart Schaefer <schaefer@zsh.org> submitted several bugfixes, reported lots of bugs and gave many very useful suggestions.

Version 2.5

---------

Bas de Bakker maintained zsh till the release of zsh-2.5.0. People who have contributed to zsh-2.5.0 are (in lexical order):

Chris.Moore@src.bae.co.uk (Chris Moore)
Harald.Eikrem@delab.sintef.no
Irving_Wolfe@happy-man.com (Irving Wolfe)
1.1606 zsh 5.0.2 :7.el7

1.1606.1 Available under license:

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ZSH CONTRIBUTORS
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Zsh was originally written by Paul Falstad <pf@zsh.org>. Zsh is now maintained by the members of the zsh-workers mailing list <zsh-workers@zsh.org>. The development is currently coordinated by Peter Stephenson <pws@zsh.org>.

This file credits only the major contributors to the current release. See the ChangeLog files for a complete list of people who have submitted patches. Note that email addresses below and in the ChangeLog file are included for disambiguation purposes only, and are not guaranteed to be currently accurate. If you feel that you or someone else have been unfairly omitted from this list please mail the list <zsh-workers@zsh.org>.

Version 4.3

Contributors to the main shell include Clint Adams, Rocky Bernstein, Andrey Borzenkov, Dan Bullok, Marc Chantreux, Thorsten Dahlheimer, Wayne Davison, Lionel Flandrin, Michael Hwang, Oliver Kiddle, Greg Klanderman, Matthias Kopferman, Mikael Magnusson, Dan Nelson, Phil Pennock, Toby Peterson, R. Ramkumar, Francois Revol, Bart Schaefer, Tom Smetana, Joerg Sonnenberger, Peter Stephenson, Jon Strait, Takimoto Jun, River Tarnell, Frank Terbeck, Philippe Troin, Geoff Wing, Matt Wozniski.

The VCS_Info function system was written by Frank Terbeck with contributions from Julien Langer.

Contributors to documentation and to completion and other shell functions include those above plus Nuno Alexandre, Ralph Amissah, Micah Anderson, arno, Frank Benkstein, Jay Berkenbilt, Frank Blendinger, Zack Cerza, Brendan Cully, Baptiste Daroussin, Danek Duvall, Ryan F, Sean Finney, Daniel Friesel, Alexey I. Froloff, Tobias Gruetzmacher, Pierre Habouzit, Richard Hartmann, Benjamin R. Haskell, Ag. D. Hatzimanikas, Pete Hollobon, Erik Johansson, Kohsuke Kawaguchi, Dough Kears, Hannu
Version 4.2

The contributor list is similar to that for 4.1.1.

Version 4.1.1

Clint Adams <clint@zsh.org>: termcap/terminfo, completion, configuration, various modules, networking, prompts

Andrey Borzenkov <bor@zsh.org>: configuration, completion functions, cygwin support

Chmouel Boudjnah <chmouel@mandrakesoft.com>: Linux completion support

Wayne Davison <wayned@users.sourceforge.net>: shell history mechanism, arithmetic

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Doug Kearns <djkea2@mugca.its.monash.edu.au>: completion functions

Oliver Kiddle <opk@zsh.org>: builtins, completion, parameters, prompts, standards support, tests

Andrew Main <zefram@zsh.org>: zle keymaps, games

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Felix Rosencrantz <f_rosenkrantz@yahoo.com>: completion, zle

Bart Schaefer <schaefer@zsh.org>: configuration, parameters, prompts, signals, syntax, tests, functions, sanity checking

Adam Spiers <adam@spiers.net>: completion and other functions
Peter Stephenson <pws@zsh.org>: configuration, zle, networking, syntax, completion

Tanaka Akira <akr@zsh.org>: completion functions

Philippe Troin <phil@fifi.org>: signals, process groups.

Geoff Wing <gcw@zsh.org>: archiving and distribution network, line editor display, configuration

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Other patches from E. Jay Birkenbilt, Jan Fedak, Ulrik Haugen, Paul Johnson, Fr. Br. George (George V Kouryachy).

Versions 3.1.7 to 3.1.9

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Chris.Moore@src.bae.co.uk (Chris Moore)
Harald.Eikrem@delab.sintef.no
Irving_Wolfe@happy-man.com (Irving Wolfe)
Jarkko.Hietaniemi@hut.fi (Jarkko Hietaniemi)
P.Stephenson@swansea.ac.uk (Peter Stephenson)
Richard.Sharman@software.mitel.com (Richard Sharman)
Tero_Kivinen@hut.FI (Tero Kivinen)
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bas@phys.uva.nl (Bas de Bakker)
benson@odi.com (Benson Margulies)
billb@bedford.progress.com (Bill Burton)
brown@wi.extrel.com (M. Brown)
carlos@snfep1.if.usp.br (Carlos Carvalho)
cedman@capitalist.princeton.edu (Carl Edman)
chip%fin@myrddin.sysbus.com (Chip Salzenberg)
chs@apu.fi (Hannu Strang)
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hswl@papa.attmail.com (Stephen Harris)
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marc@cam.org (Marc Boucher)
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norbert@i3.informatik.rwth-aachen.de (Norbert Kiesel)
oberon@cs.tu-berlin.de (Sven Wischnowsky)
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1.1607 zsh 5.0.2 :14.el7
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The VCS_Info function system was written by Frank Terbeck with contributions from Julien Langer.

Tittelbach, Ingmar Vanhassel, Markus Waldeck, Motoi Washida, Nikolai Weibull, Jesse Weinstein.

Version 4.2
----------

The contributor list is similar to that for 4.1.1.

Version 4.1.1
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Clint Adams <clint@zsh.org>: termcap/terminfo, completion, configuration, various modules, networking, prompts

Andrey Borzenkov <bor@zsh.org>: configuration, completion functions, cygwin support

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Version 3.1.6
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* Zoltn Hidvgi <hzoli@cs.elte.hu> maintained zsh from version 2.6-beta16. Rewrote most of the lexer and substitution and the related completion code. Improved sh/ksh/POSIX compatibility. Fixed lots of bugs in completion, parameter and history code. Made zsh fully 8-bit clean. Made some reorganizations in exec.c. Fixed signal handling bugs. Fixed lots of bugs in various places.

* Peter W. Stephenson <pws@zsh.org> the maintainer of the zsh FAQ. Reorganizations in exec.c. Rewrote and reorganized the history code. Rewrote the zshcompctl manual page. Fixed several bugs related to programmable completion. Fixed several signal handling bugs. Rewrote test and read builtin.s. Lots of other bugfixes.

* Andrew Main (Zefram) <zefram@zsh.org> reorganized builtin.c. Rewrote large parts of the zle vi mode. Redirection fixes. Reorganized parts of the completion code, added some enhancements and fixed lots of bugs. Made zle fully 8-bit clean. Fixed several zle bugs. Reorganized zsh option handling. Lots of other bugfixes.

* Sven Wischnowsky <wischnow@informatik.hu-berlin.de> wrote most of the programmable completion code in zsh-2.5.0. Several bugfixes in exec.c and jobs.c. Lots of completion bugfixes and enhancements.

* Geoff Wing <gcw@zsh.org> rewrote most of zle_refresh.c. Some other bugfixes.

* Clive Messer <clive@epos.demon.co.uk> brought the texinfo documentation up-to-date.

* Mark Borges <mdb@cdc.noaa.gov> contributed several documentation fixes including further texinfo documentation updates and maintained the zsh web pages during their tenure at www.mal.com.

* Wayne Davison <wayne@clari.net> improved the zle search functions and made them 8-bit clean. Some other little bugfixes.

* Bart Schaefer <schaefer@zsh.org> submitted several bugfixes, reported lots of bugs and gave many very useful suggestions.

Version 2.5
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Bas de Bakker maintained zsh till the release of zsh-2.5.0. People who have contributed to zsh-2.5.0 are (in lexical order):

Chris.Moore@src.bae.co.uk (Chris Moore)
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